MODEL TC-131 TAPE CONTROLLER LOGIC MANUAL



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PUBLICATION NUMBER
91000489 A

western peripherals

14321 MYFORD ROAD TUSTIN, CALIFORNIA 92680

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Appendix A

Cables and Adapters

Notes

HOW TO USE LOGIC MANUALS

Logic Manuals Contain:

- •Schematics of all boards (for logic troubleshooting).
- •Assembly drawings (for assembly identification and parts locating).
- •Some manuals also contain: Special modifications, block diagrams, flowcharts, listings and other reference information.

Arrangement of Drawings:

*Drawings are generally arranged in numerical order except where other arrangements provide greater convenience. (See Table of Contents)

Table of Contents:

•Provides a listing of the drawings as they appear in the manual.

Functional Index (when used):

- Provides lists of drawings, grouping them as they are used in the system.
- Drawing numbers facilitate easy look-up (See Table of Contents).

Thumb Tabs (when used):

•Provides ready access to schematics.

•NOTICE:

CHECK AT THE REAR OF THIS MANUAL FOR:

- •Latest Drawing Changes
- •Added Drawings
- •Notes and Additional Information

HOW TO USE SCHEMATICS

Reference Numbering

- *Circled numbers in the lower right-hand corner are used as page numbers for the schematic. (Drawing sheet numbers may be disregarded)
- *Signal sources and destinations are referenced to these page numbers. Example:

Source (from page 3): 3 - READ
Destination (to page 4 & 5): START - 4, 5

Block Diagrams

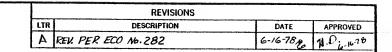
*Most block diagrams provide page reference numbers in each block which identify the schematic page where the logic may be found.

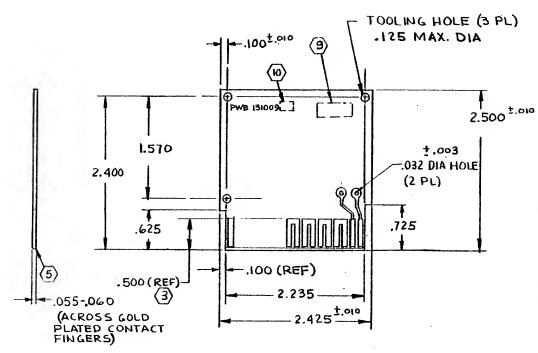
Signal Levels

- *Normally signals are true when high (+5V) and false when low (0V).
 - *Signals with bars (WRITE) are true when low and false when high.

Off-Board Connectors

*Small boxes or diamonds are used to identify signals which exit the board. (Where the numbers are in the format BA2, CV1, DR2, etc. The first letter identifies the connector, The second digit identifies the pin of the connector, and the third digit idenfifies the side of the board where side one is the component side and side two is the solder side).





NOTE: UNLESS OTHERWISE SPECIFIED

2. FINISH: ELECTROPLATED TIN/LEAD, 60/40

(3) CARD EDGE CONTACT FINGERS TO BE HARD GOLD PLATED MIN . 00005 THK (NICKLE GOLD OPTIONAL)

4. HOLE REGISTRATION + . OLO OF TRUE POSITION

(5)EO GES OF CONTACT FINGERS TO BE BEVELLED BOTH SIDES 45°x.025

6.USE ARTWORK 131009

7. MAX. FILET RADII . 015

8. TOLERANCE ON 3 PL DECIMALS (XXX) 15 1.005

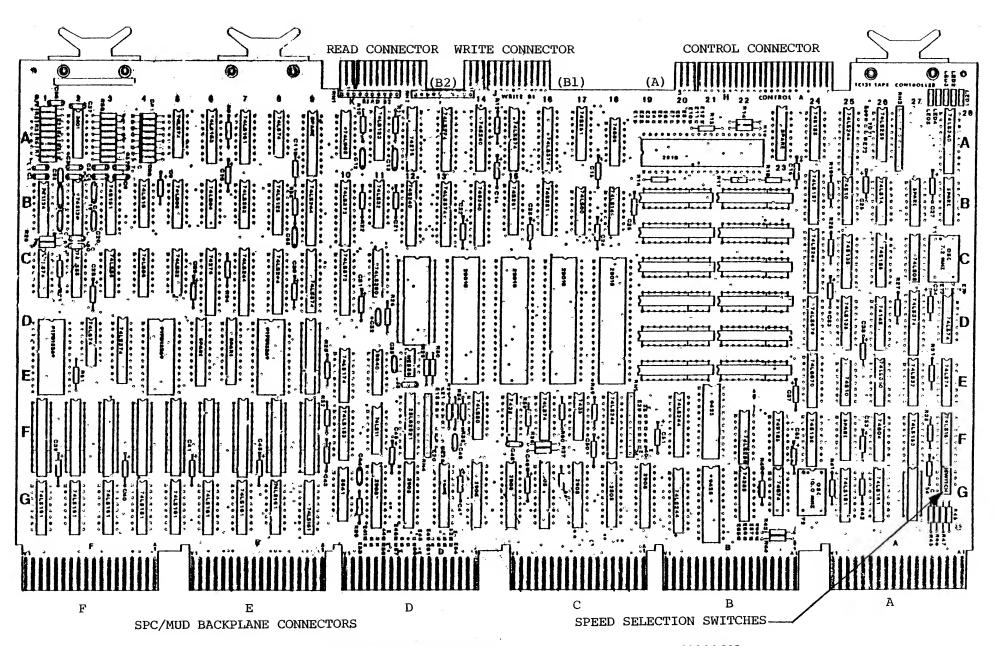
9 BOARD TO BE U.L. APPROYED PER U.L. 94VE-2 AND BE PERMANEUTLY AND CLEARLY MARKED TO SHOW COMPLIANCE, MARKING TO INCLUDE FABRICATOR'S NAME, TRADEMARKS, LOGO OR OTHER MEANS OF IDENTIFICATION FOLLOWED BY THE CHARACTER'S "U.L. 94VE-2" APPROX WHERE SHOWN.

(10) STAMP REV.LTR. OF THIS FAB. DWG. USING BLK. ETCHING INK WHERE SHOWN AND APPLY PROTECTIVE COAT OF CLEAR ACRYLIC ABLE TO

WITHSTAND CLEANING WITH FREON,

OCT 1 8 1979

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES		western peripherals AMAHEIM, CALIFORNIA			
± ±	±	FABRICATION DWG-			
APPROVALS	DATE	PWB- GRANT CONTINUITY			
CORUM	11-24-76		\ HIV		411140111
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		DO NOT SCALE DRAWING SHEET \ O		SHEET 1 OF 1	

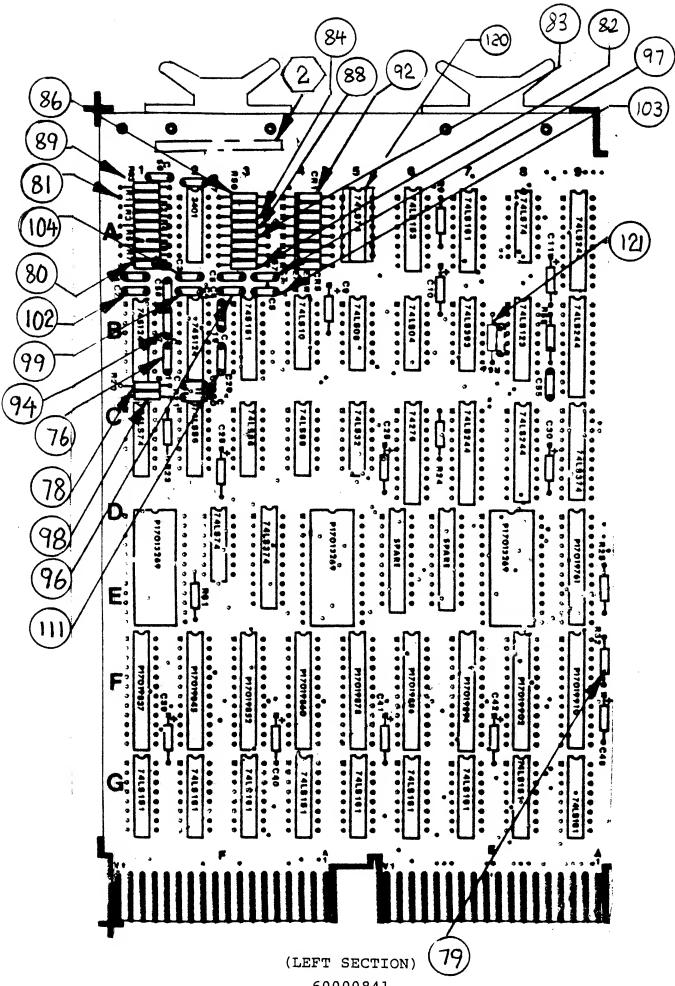


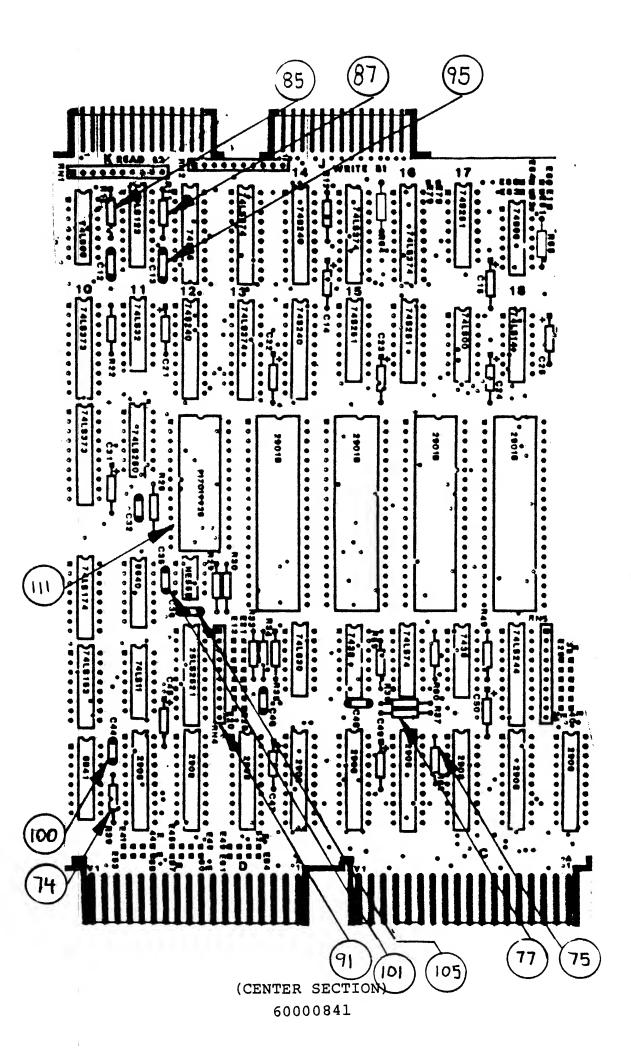
The "NRZI-ONLY" Version of the Controller is the same as Assy. 60000601 with parts deleted as noted on Schematic 75000539.

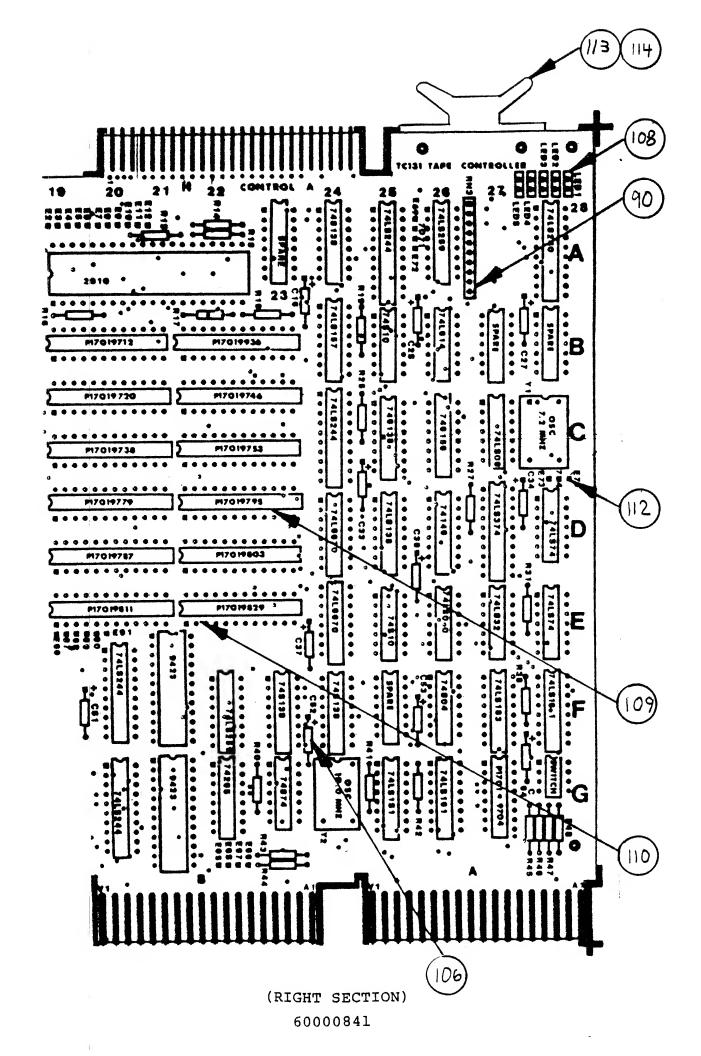
NOTES: UNLESS OTHERWISE SPECIFIED

- I. FOR NIATERIAL SEE BM 60000841
- A PPROX. WHERE SHOWN
- 3 MAX. HEIGHT OF COMPONENTS FROM SURFACE OF BOARD NOT TO EXCEED. 400.
- 4 REF SCHEMATIC 75000752
- 5) ON CIRCUIT BOARD ZONE BT RESISTOR
 RGG HAS BEEN SCREENED INCORRECTLY
 15 RGG(NOT RG5).

western peripherals ANAHEIM, CALIFORNIA					
A	ASSEMBLY DRAWING				
TC 131 TAPE CONTROLLER					
SIZE	CODE IDENT NO.	DRAWING NO.	,		
D		60000841			
SCALE	FULL		SHEET / OF 4		







2PLLS 74 RIB, R39

RIA RIS RZO 76

R 29, R 30, R 21

R9 R12, R13, R16, R17, R17 R22, R24, R25 R27, R28, R31, R32, R33, R38, R40-R43, R41

75, R7, R8, RZ3, R44- R48

RI, AZ, R4 (3)

Z PLCS RSO, RSI @

R63 (89)

ZPLCS RIO RSB क्षि है।।

(17

@ R 57

84) R5Z

83 2 PLCS R 54, R55

APLCS RD RG RS3 RS6

7 PLC5 RZC, R34, R36, R49, RS9, R60, R62

2PLC5 R35, R37

90 3 PLCS RNI, RNZ, RN3

C18 (94)

91 2PLCS RN4, RNS

C 20 (96)

92 8 PLLS CRI-CRB

2 PLS 98 C4 (99)

4 PLCS C12, C13, C19, C55

4 PLCS (00) C32,C44,C46,C48

97) C7 (O) C 35

CS (103)

(13) CS

(104) C 3

105 6 PLCS C36 C56-C60 (06) 34 PLCS C9, C16, C11, C14, C15, C16, C21-C31, C33, C34, C37-C43, C45, C47, C49-C54

(108)SPLCS LEDI - LEDS

22PLCS BI9, BZI, CI9A, CI9B, CZIA, CZIB, D9, D39A, D19B, D21A, D21B, E19, EZI, F1-F9

C12 (11)

23 PLCS BI9, BZI, CI9A, CI9B, CZIA, CZIB DA, DI9A, DI9B, DZIA, DZIB, E19, EZI, FI - F9, GZ7

75 PLCS E1-E75

3 PLCS

6 PLCS

(2) (2) (2) (3)

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CPU Vector Jumpers and Gate	
PLA Bus Sequencer	3
NXM Timer/Latch	
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Reset Logic	4
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DATA PROCESSOR	
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Destination Decoder	
Source Decoder	
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"A" Latch	
"B" Latch	
ADDRESS PROCESSOR	
Condition Test Registers	7
Condition Test Select	
D-Bus Test Select	
Micro-Interrupt Vector RAM's	

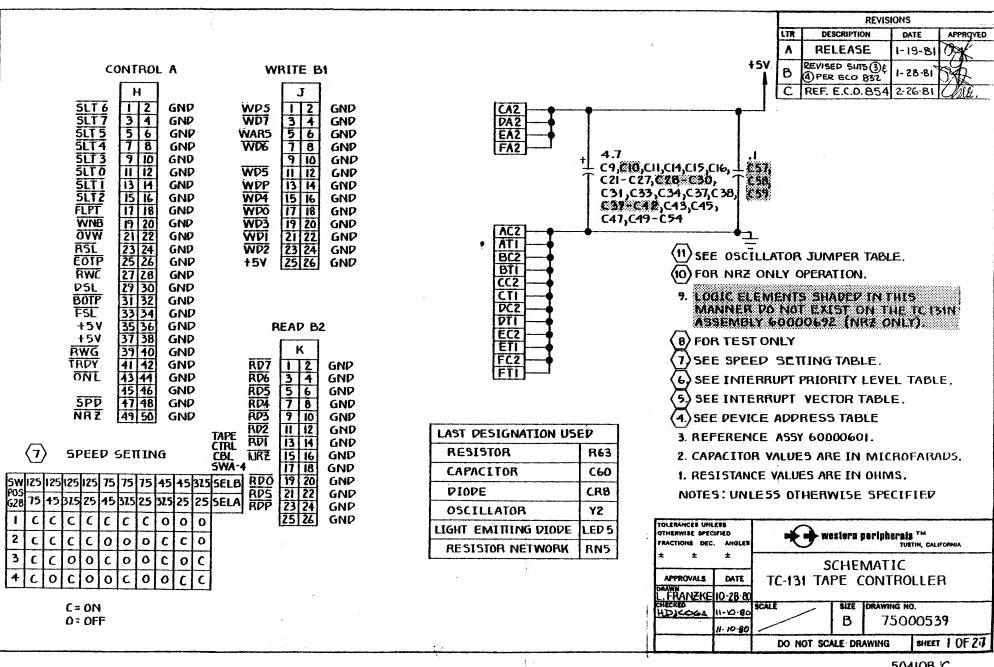
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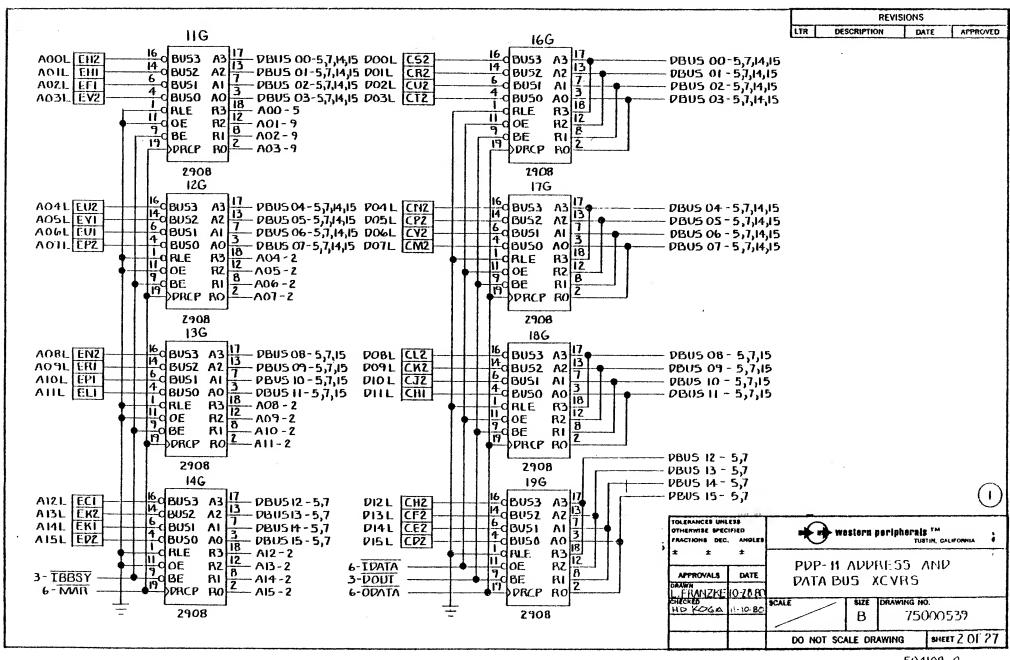
TITLE .	PAGE
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Tape Status Terminator & Gate	15
Tape Unit Select Register	
Parity Generator & Control	
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Tape Control & Status	
Read Strobe Interrupt	
PE READ LOGIC	
PE Deskew Buffer Timer	16

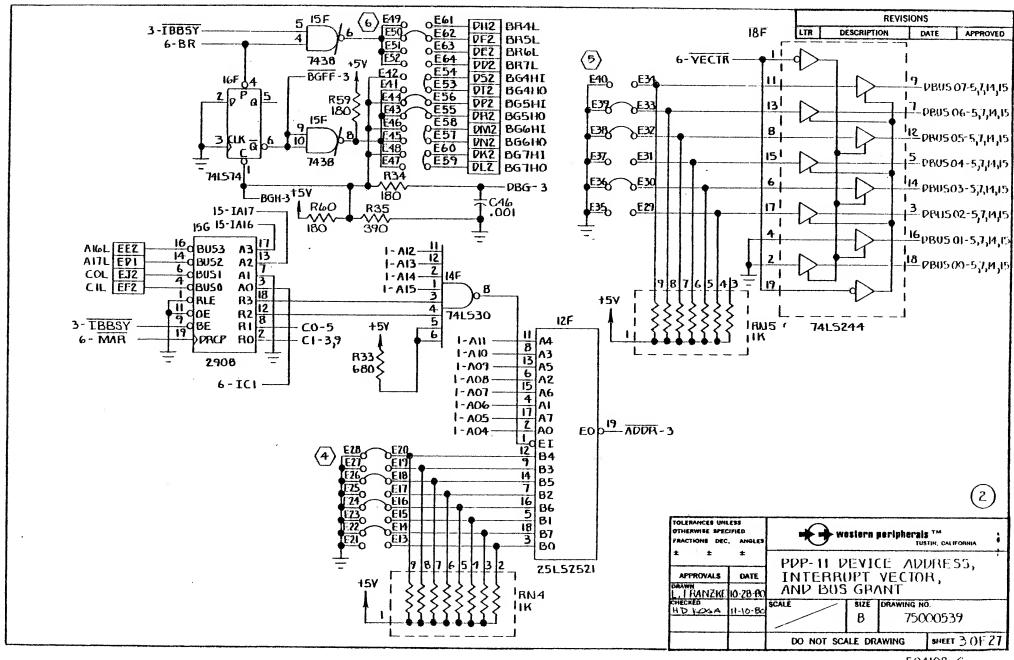
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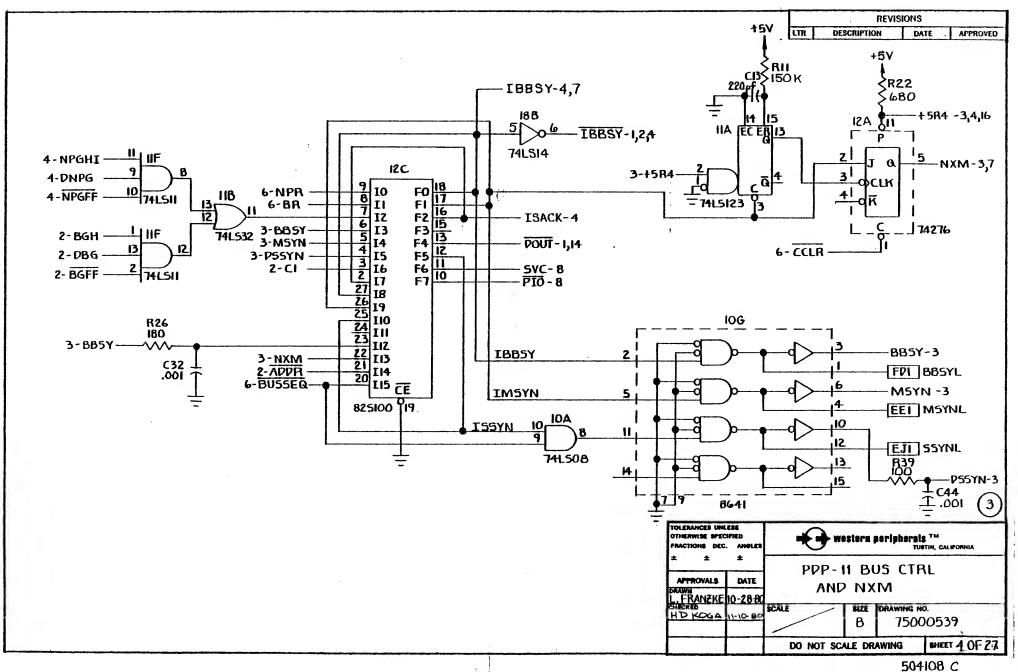
TIT	<u> PLE</u>	PAGE
PΕ	Data Gate	17
ΡE	Drop-Out Gate	
ΡE	Parity Control & Gate	
ΡE	Status RDM	
PE.	Status Latch	
ΡE	Reference Divider	18
ΡE	Phase Comparator	
PΕ	Read Activity Detector and Control	
PΕ	Voltage Controlled Oscillators	19
PΕ	Clock Selector	
PΕ	Read Register	20-22
PE	Window Counter	
PΕ	Desken Register	
PΕ	Sequencer ROM's	23-25

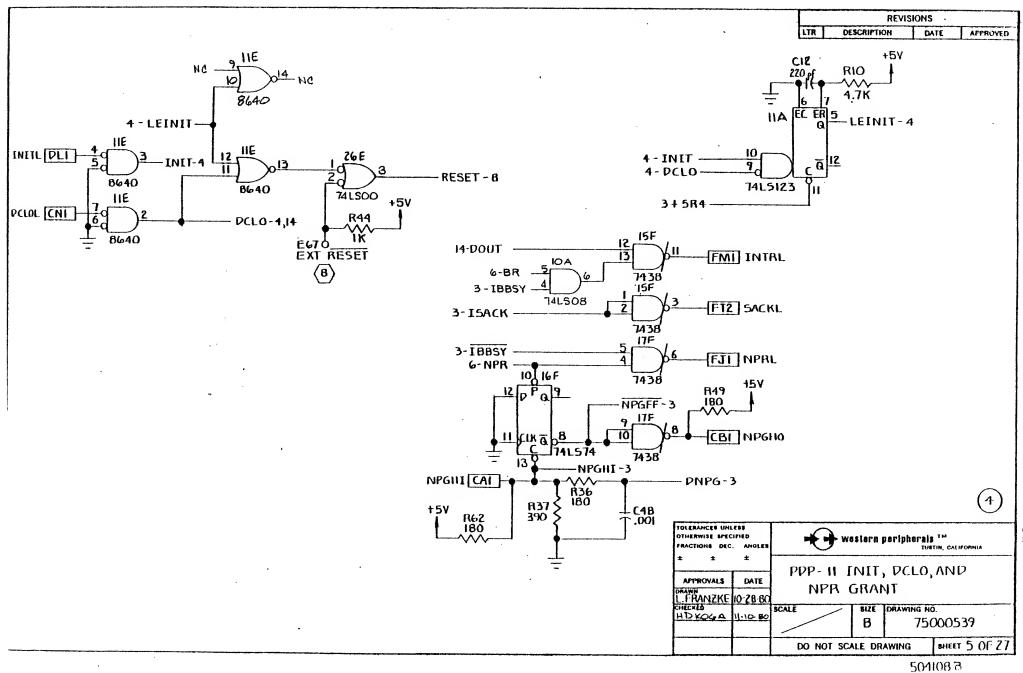
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ŕ	A	В	С	D	E	F	G
1		19	19	20		23	20
2	19	19	20,21	20		23	20
3		19	21,22	20,22		23	20
4	Ť	16	18,22	21		24	21
5	18	16,17	17,18	21		24	21
6	18	6,18	18	:		24	21
7	18	18	17	22		25	22
8	18	16	17	:		25	22
9		17	17	17		25	22
10	3,4	16	16		15	15	3
11	3,4	3,7	15		4	3	1
12	3,16	16	3		10	2	1
13	14	14	5				1
14	14	14		TC-131 BOARD LOCATION		2	1
15	7	7	5	TO SCHEMAT	O IC PAGE	2,4	2
16	7	7	5	CROSS-REFERENCE (ASSY 60000601)		2,4	1
17	7	7				4	1
18	7	3,7	5			2	1
19	9	11	A/B 11	A/B 11	11		1
20						6	6
21		11	A/B 12	A/B 12	12	10	10
22						6	10
23						6	10
24	14	9	9	7	7	6	
25	14	6	6	8	5,7		13
26	6	5,6,8	5	8	4,8,13	13	13
27	n n		5,10	8	5,8	13	13
28	15			8	8	13	13





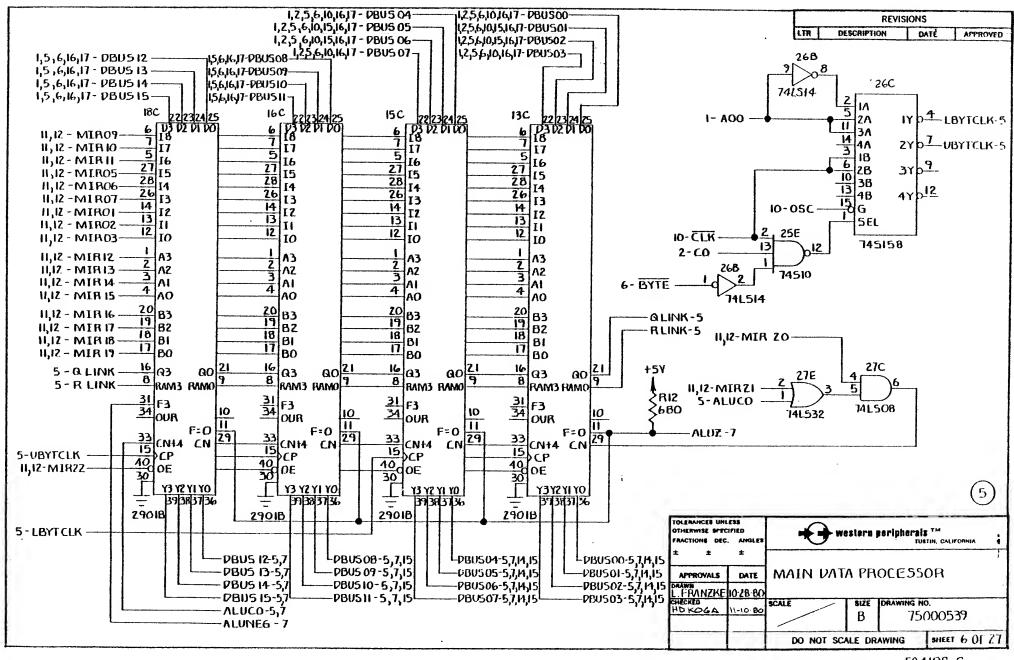


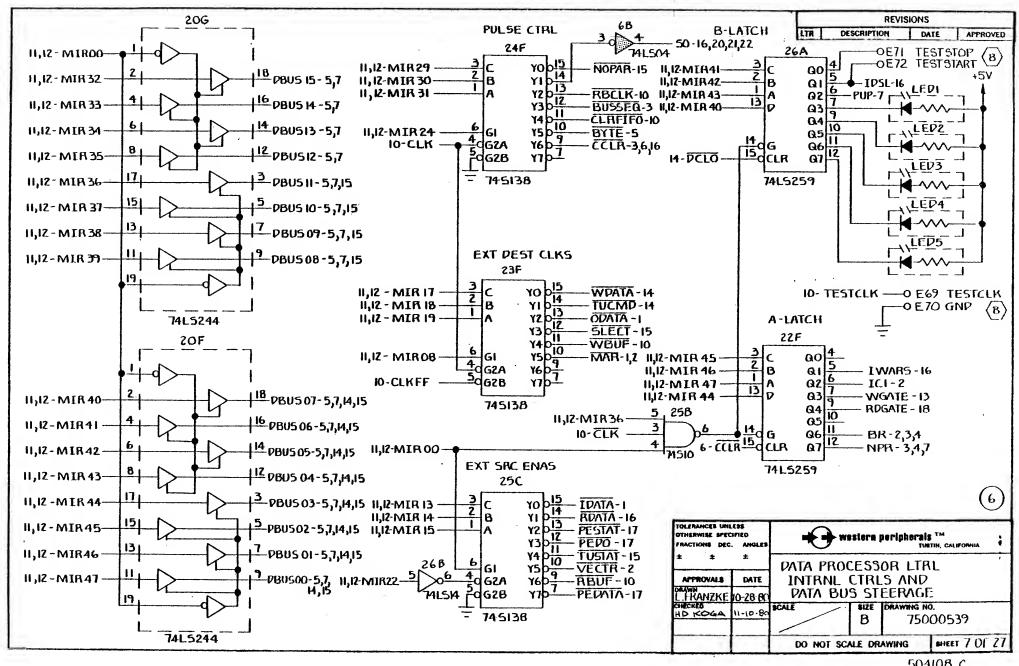


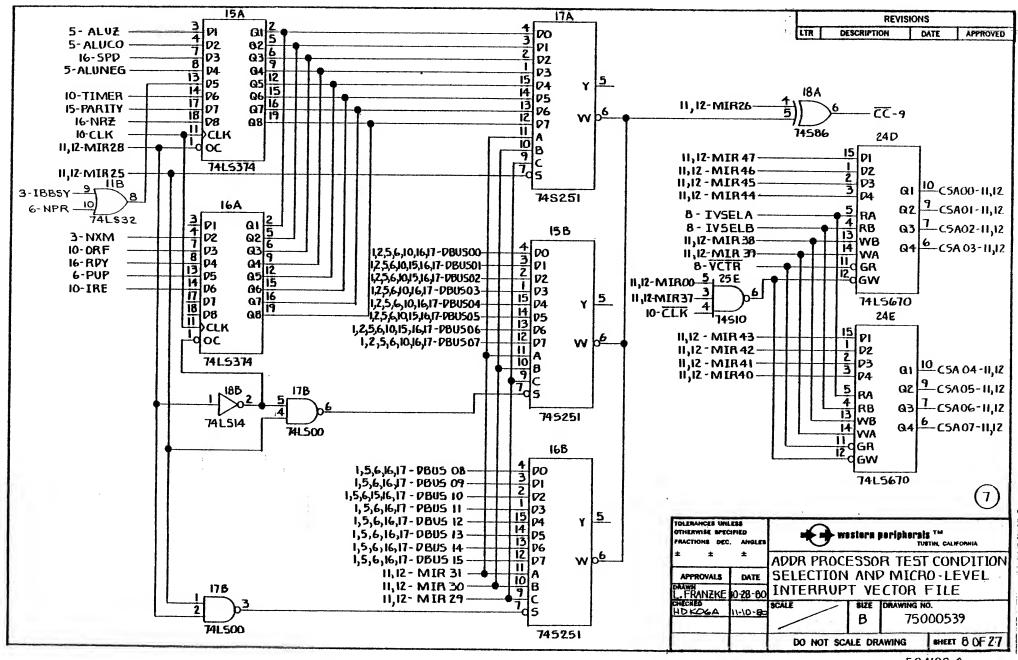


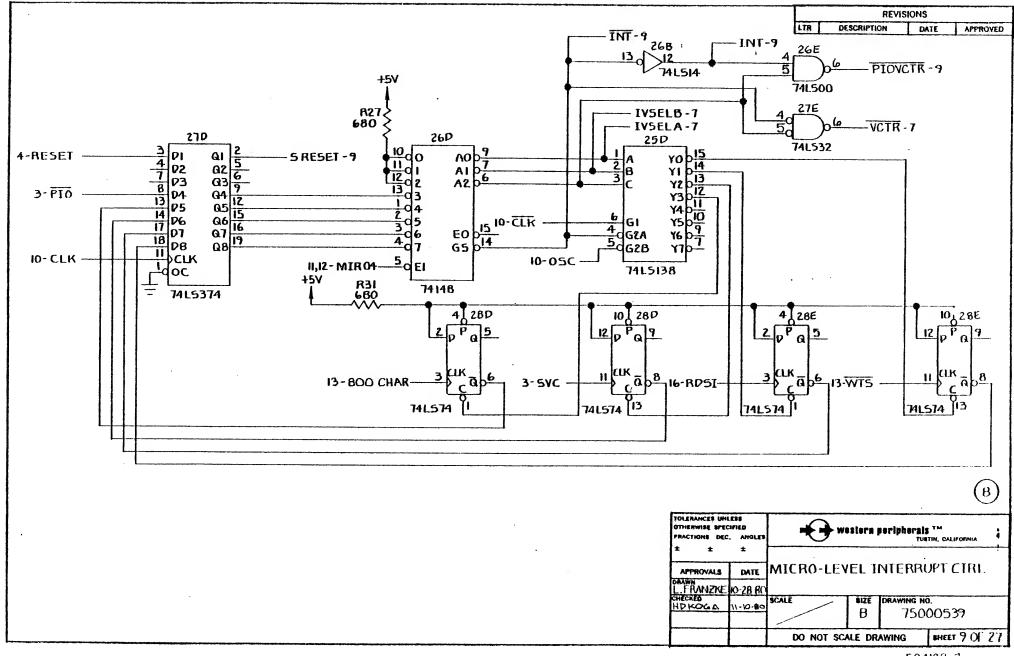
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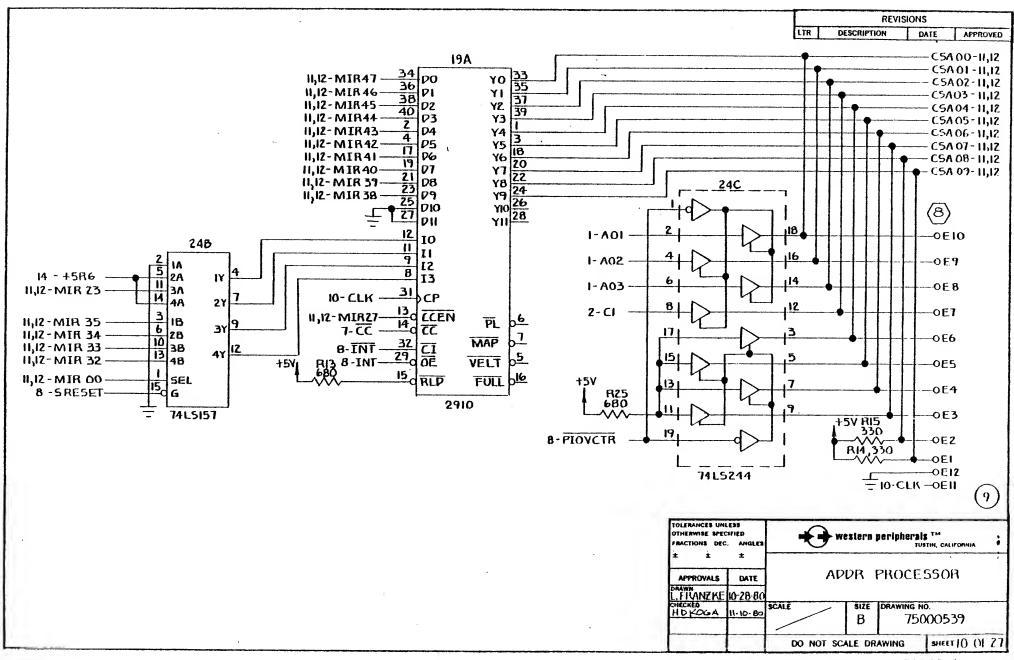
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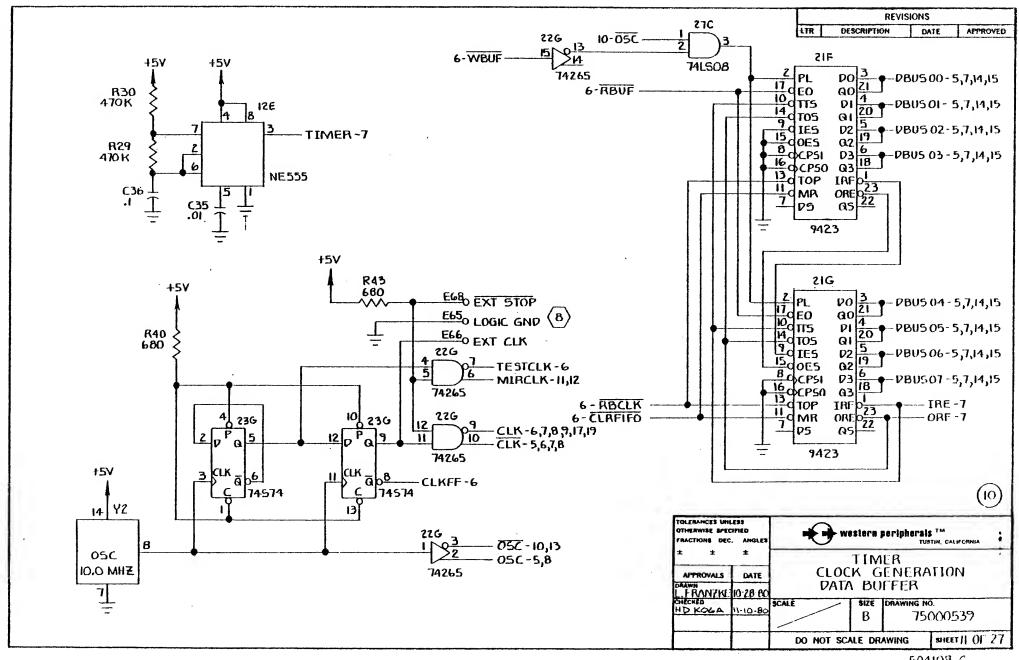


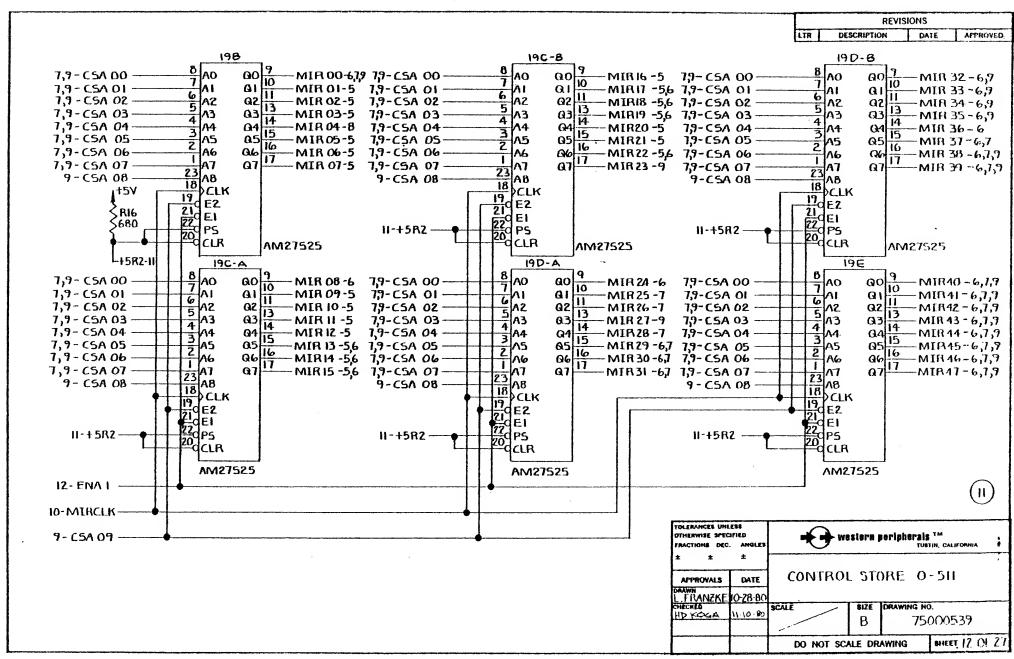


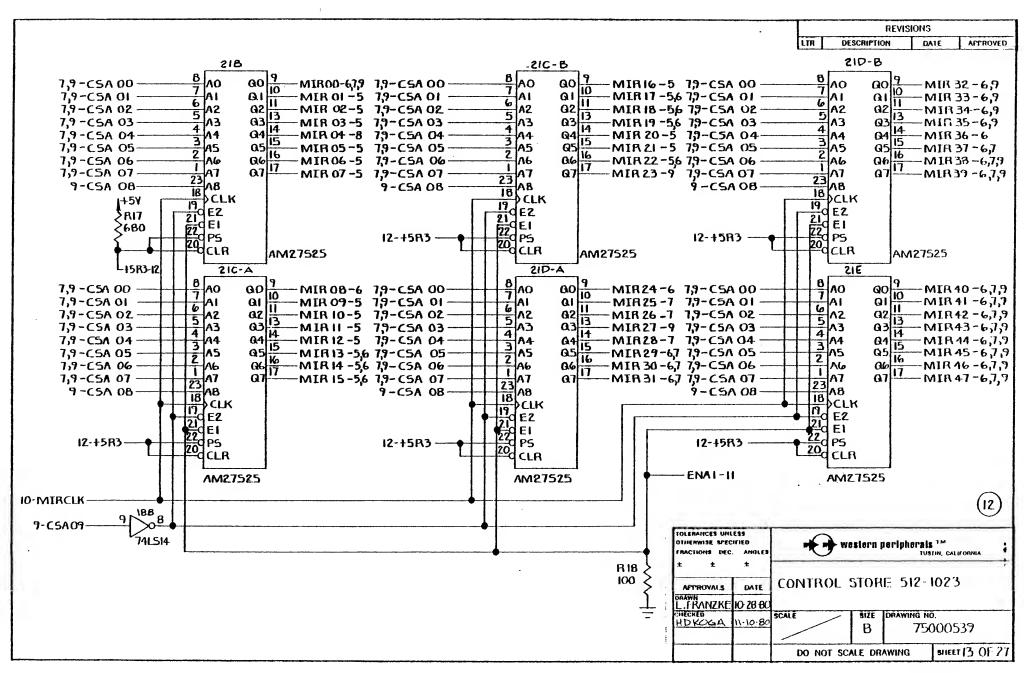


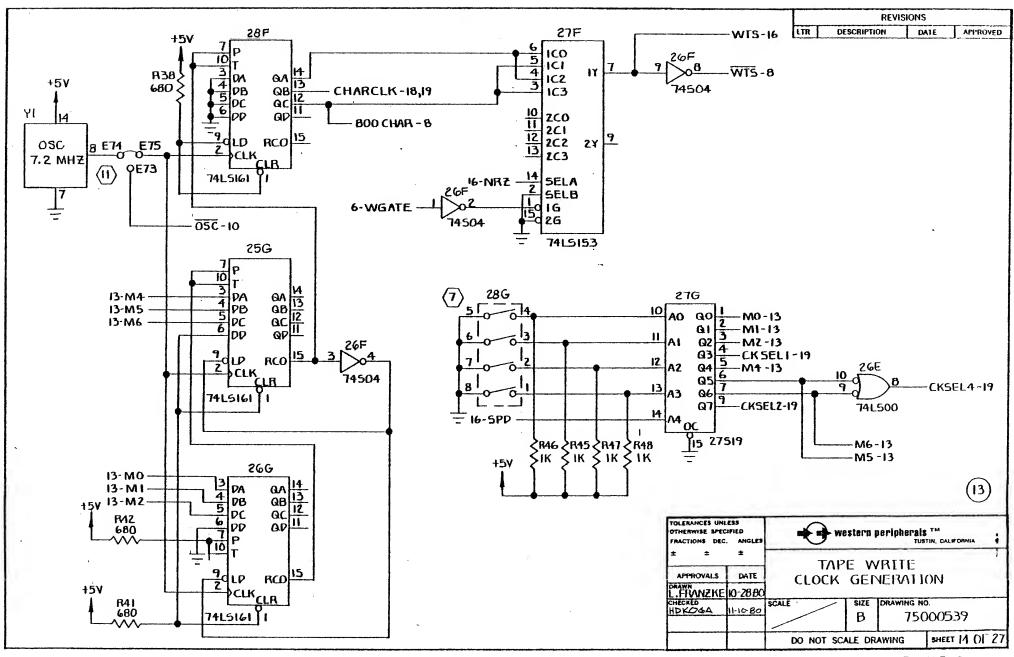




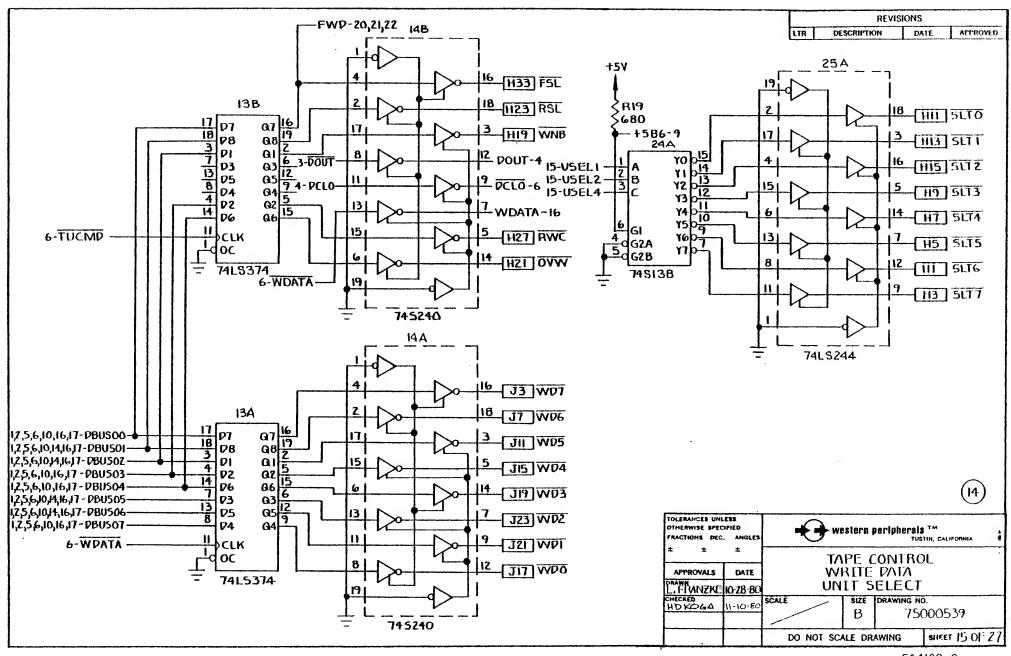


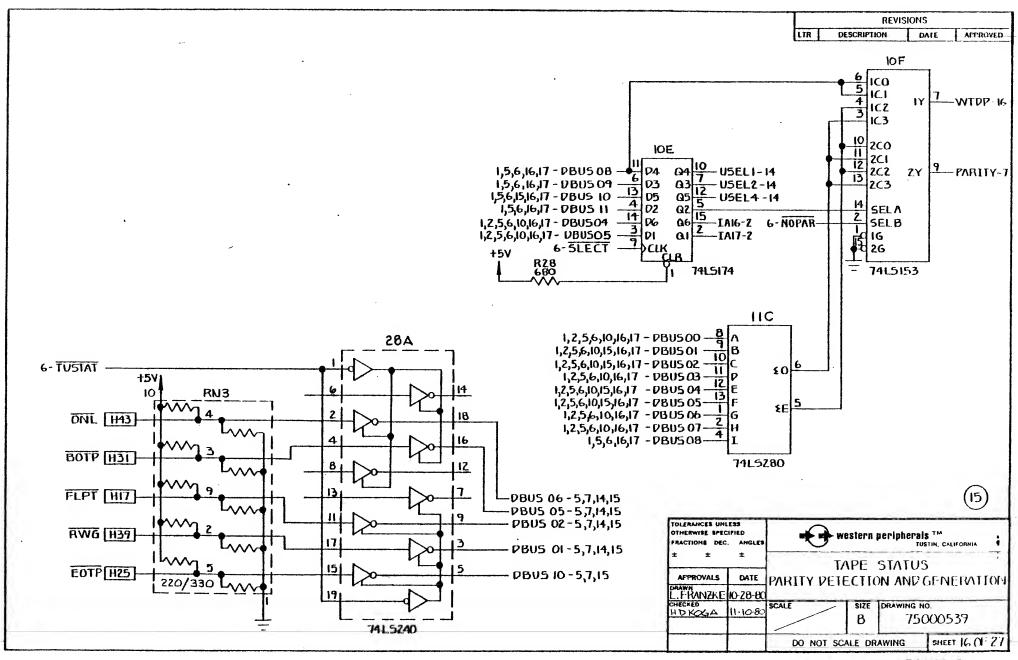


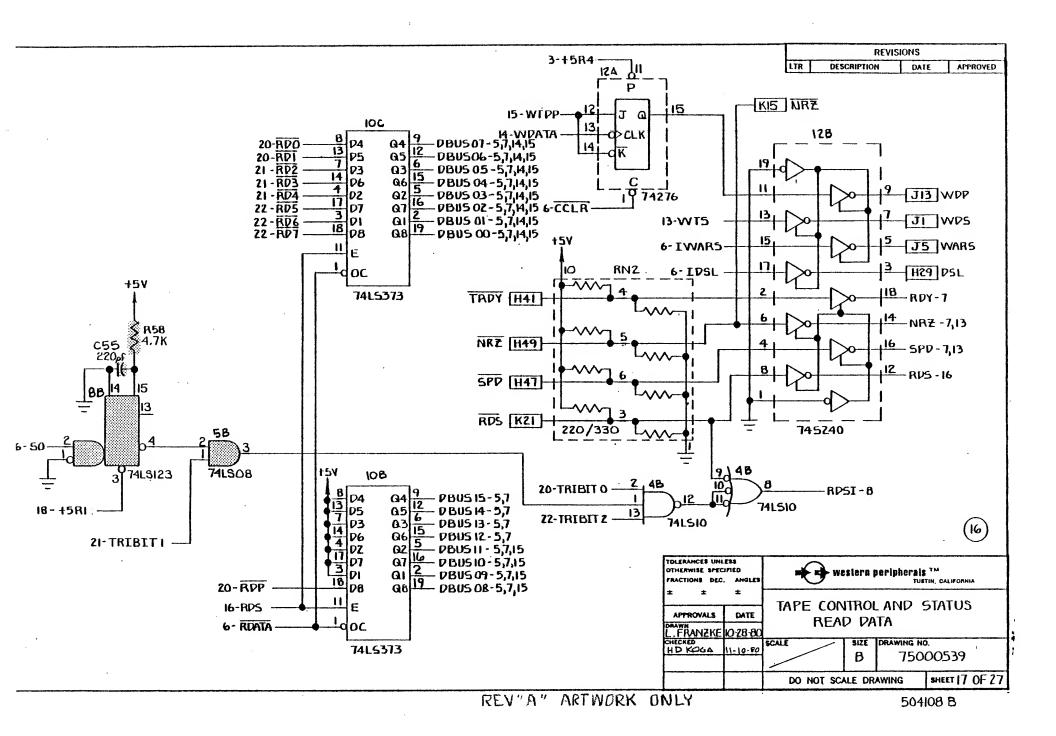


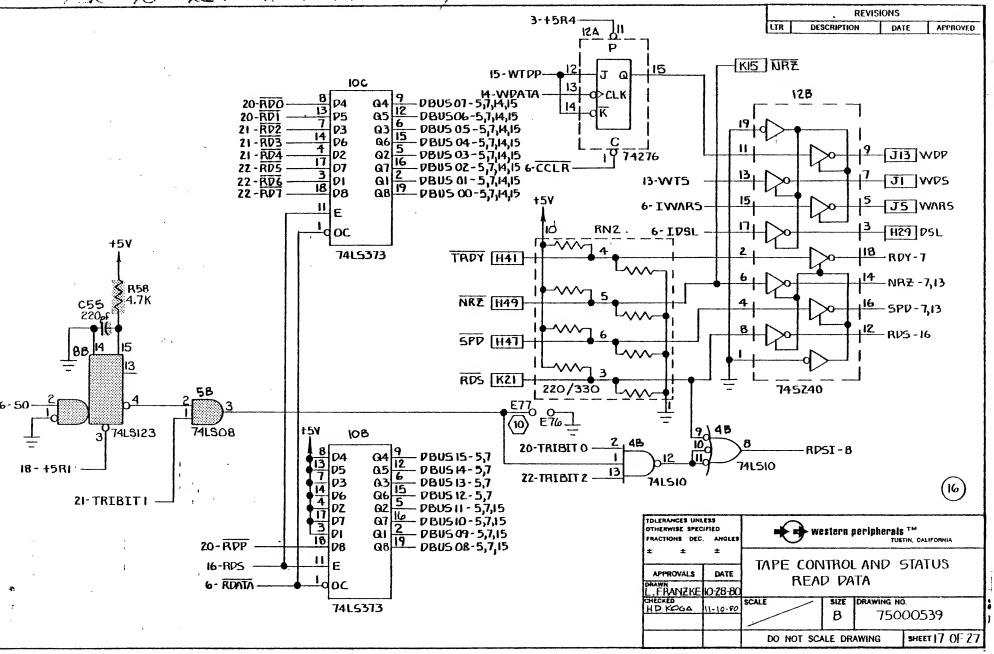


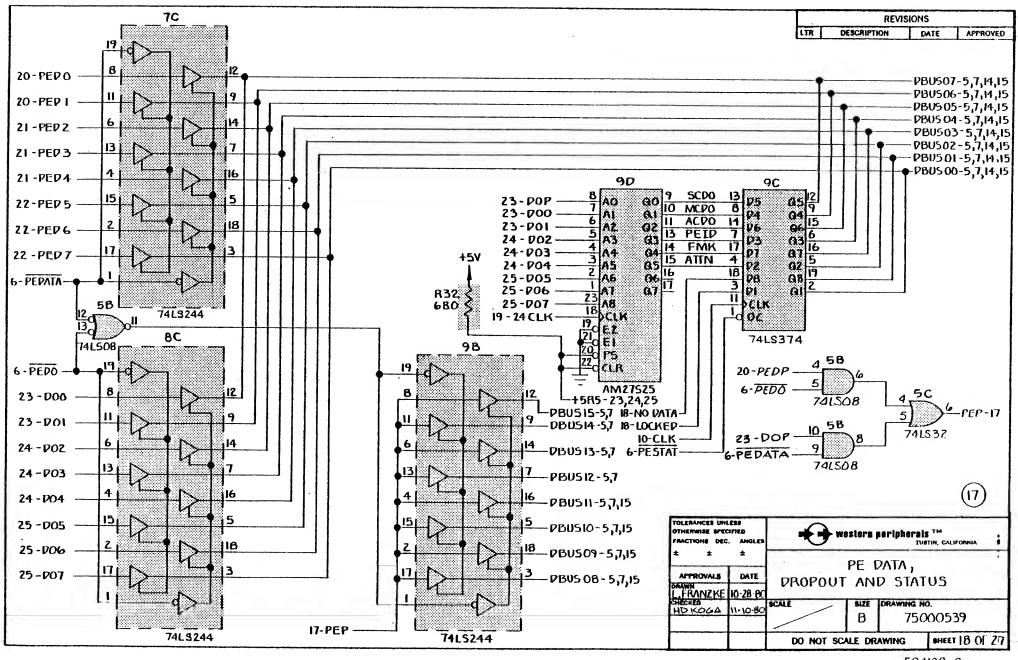
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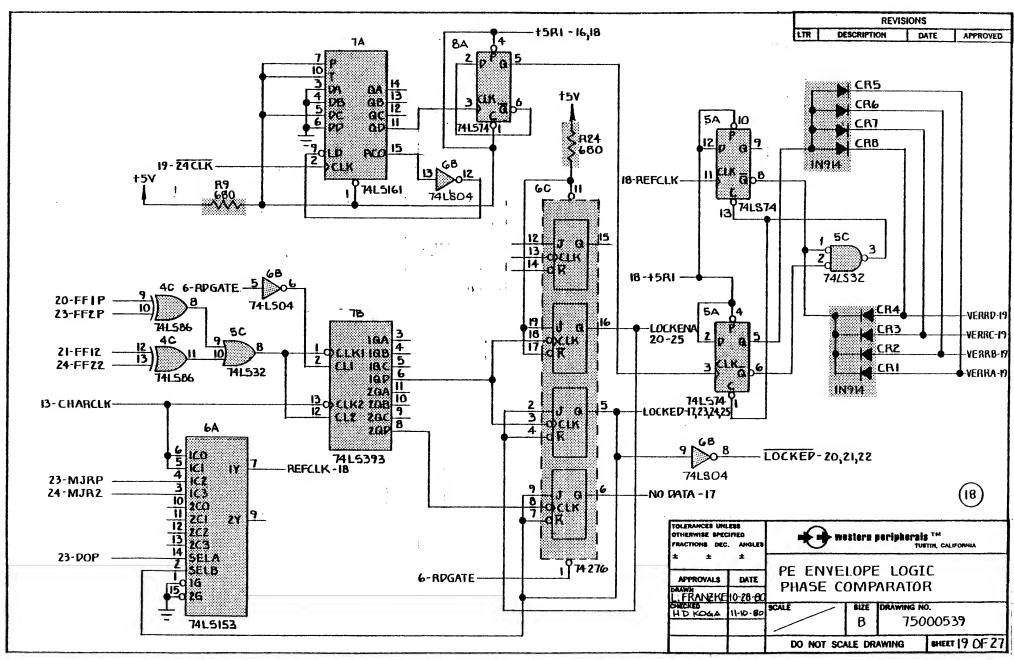


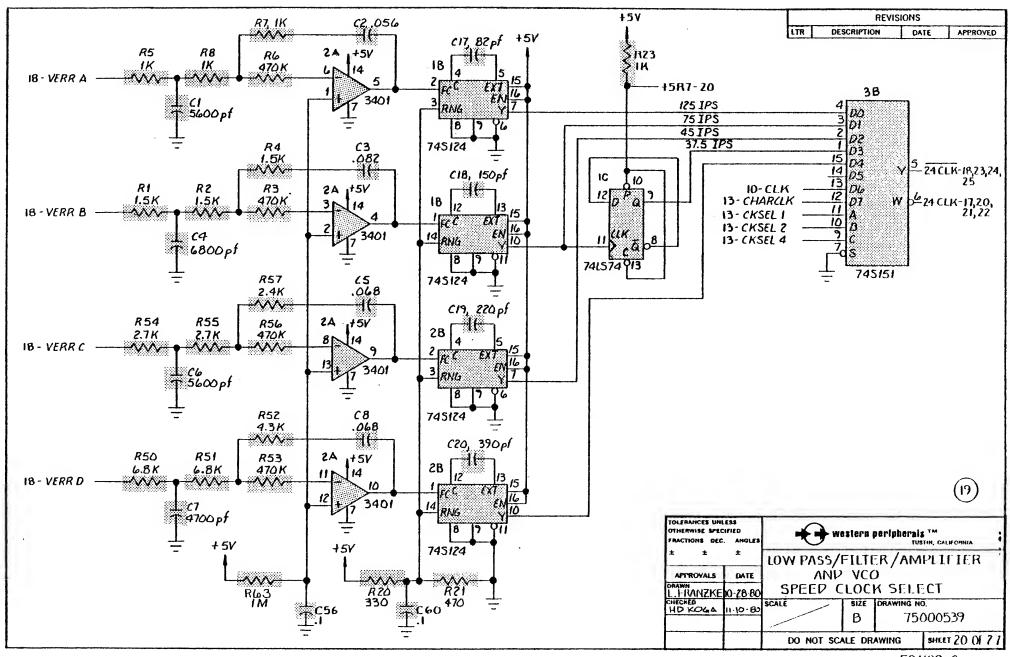




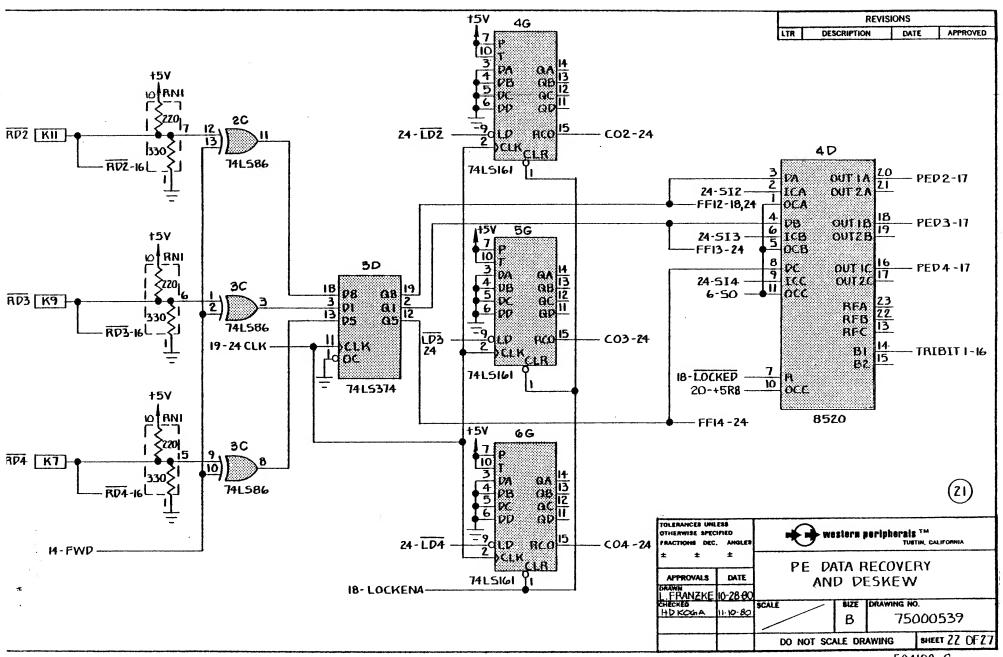


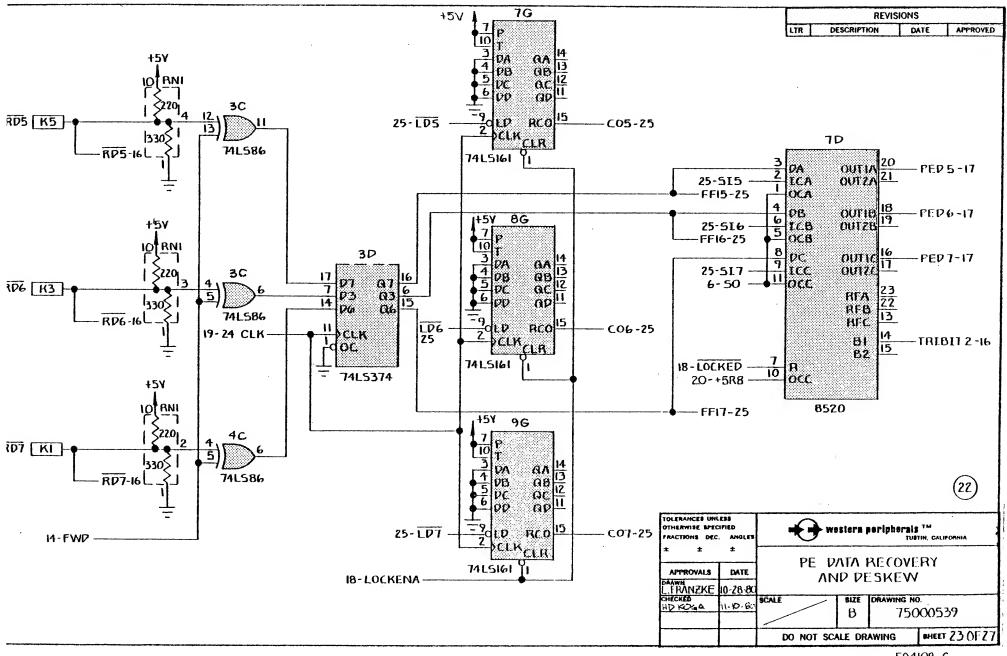


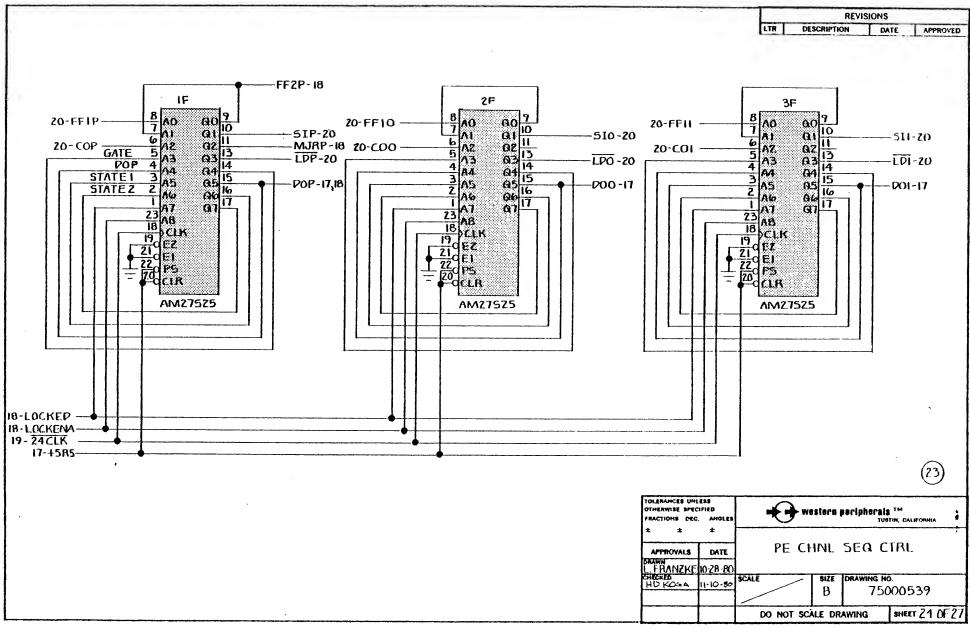


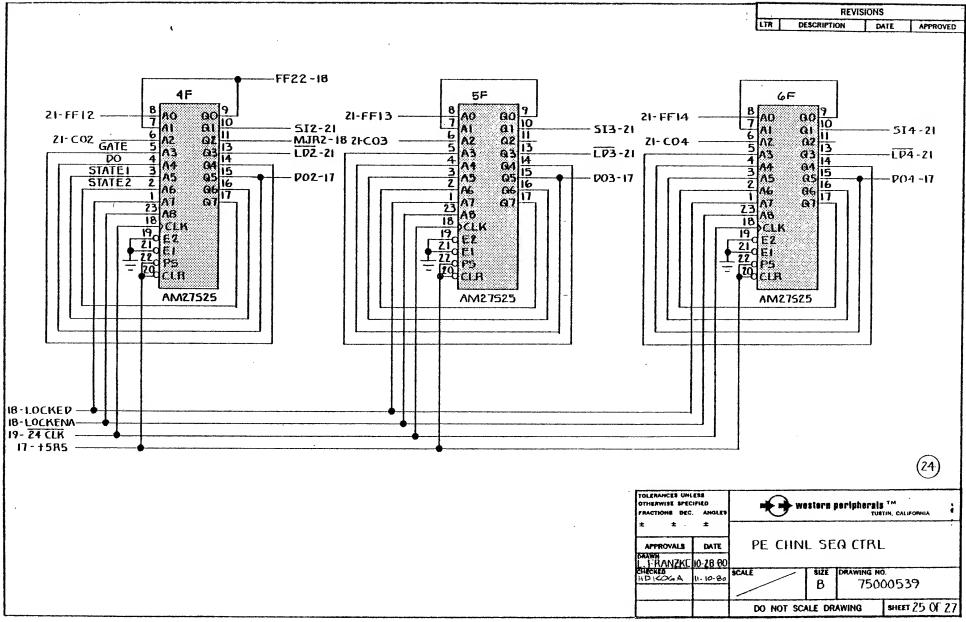


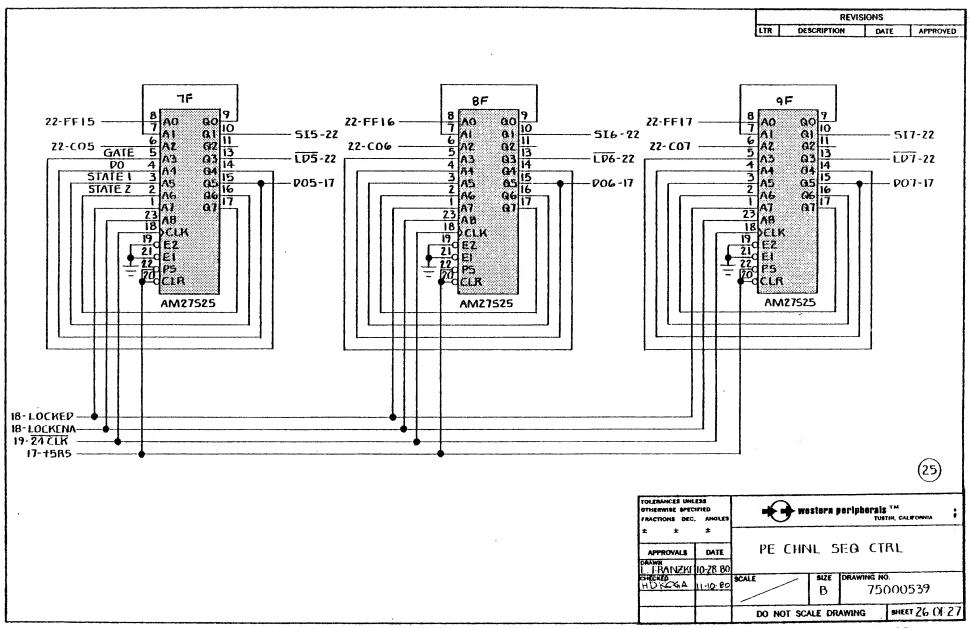
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DEVICE ADDRESS STD ADDR 7725208

			U	
ADDR	ADDR	E	STD	TNSTALLED
BIT	RANGE	JUMPERS	ADDR	JUMPERS
17	1 .		1	
ماا	1		1	
15	1		1	
14				
13	1		1	
12	1		1	
11	0/1	28-20	٥	X
10	0/1	27-19	1	-
9	0/1	26-18	0	X
8	0/1	25-17	1	
7	0/1	24 - 16	0	X
6	0/1	23-15	1	
5	0/1	22-14	۵	Χ .
4	0/1	21-13	1	
3	Х		Х	
2	X		Χ	
1	X		X	
<u> </u>	X		X	

INSTALL JUMPERS FOR "Ø's" IN DESTRED ADDR

5 INTERRUPT VECTOR STD VECTOR 2248

VCTR BIT	E JUMPERS	STD VCTR	INSTALLED JUMPERS
7	40-34		
lo	39-33	0	Χ
5	38-32	0	X
4	37-31	1	
3	36-30	0	X
2	35-29	i	
1		0	
		D	

INSTALL JUMPERS FOR "Ø's" IN DESIRED VECTOR

REVISIONS				
IR	DESCRIPTION	DATE	APPROVED	

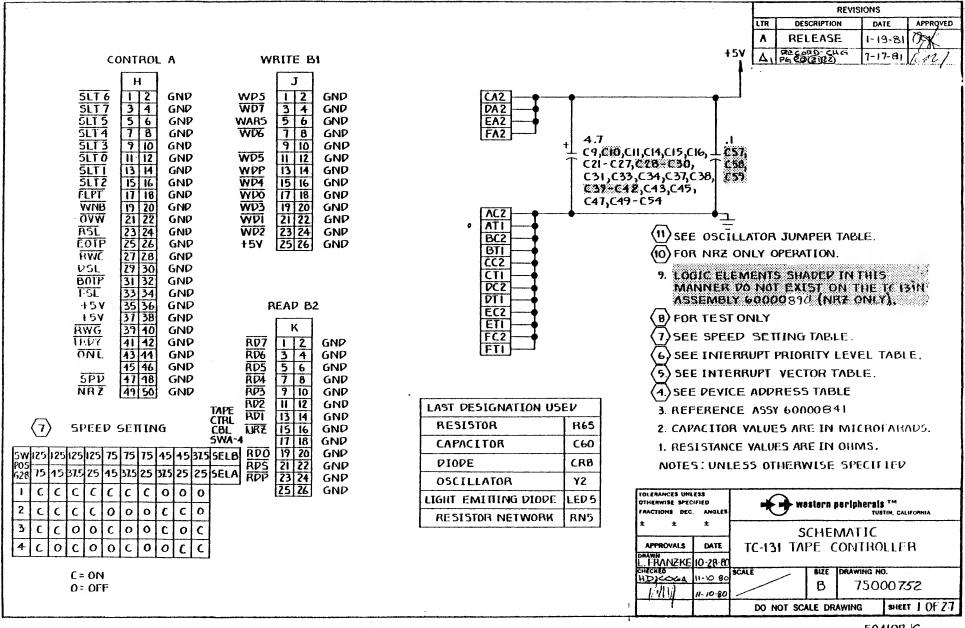
OSCILLATOR JUMPERS

$\langle \Pi \rangle$	OPERATION	E JUMPERS
	TEST FIXTURE	E73→E75
		E74 → E75

INTERRUPT PRIORITY LEVEL

(6)	BR4	BR5	BRL	BR7
	E41 → E53	E43 → E55	E45 → E57	E47→E59
	E42 → E54	E44→E56	E46→E58	E48- E60
	E49 → E61	E50→E62	E51 → E63	E52→ E64
	E55→E56	E53→E54	E53→E54	E53→E54
	E57→E58	E57→E58	E55 → E56	E55→ E56
	E59→ E60	E59→E60	E59→E60	E57→E58

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± ±		₩ W	stern	peripherals TUS	TM	i
		S	CHE	MATIC		,
APPROVALS	DATE	TC - 131 TAPE CONTROLLER				
C. Apada	12 15-20		IA	ri: cor	HMOLLEK	
CHECKED		SCALE	SIZE	DRAWING NO).	
			В	750	00539	
		DO NOT SCALE DRAWING		SHEET 27 OF	27	



	IBM PACK	REMOTE DENSITY SELECT
1.	STANDARD - Bit 10 in MTRD	i. STANDARD - Drive Density Switch
2.	OPTION i - Use of Drive Select- Bit 10 in MTC	2. OPTION i - Use of Drive Select- Bit 10 in MTC
3.	OPTION 2 - Customer installed jumper or remote switch	

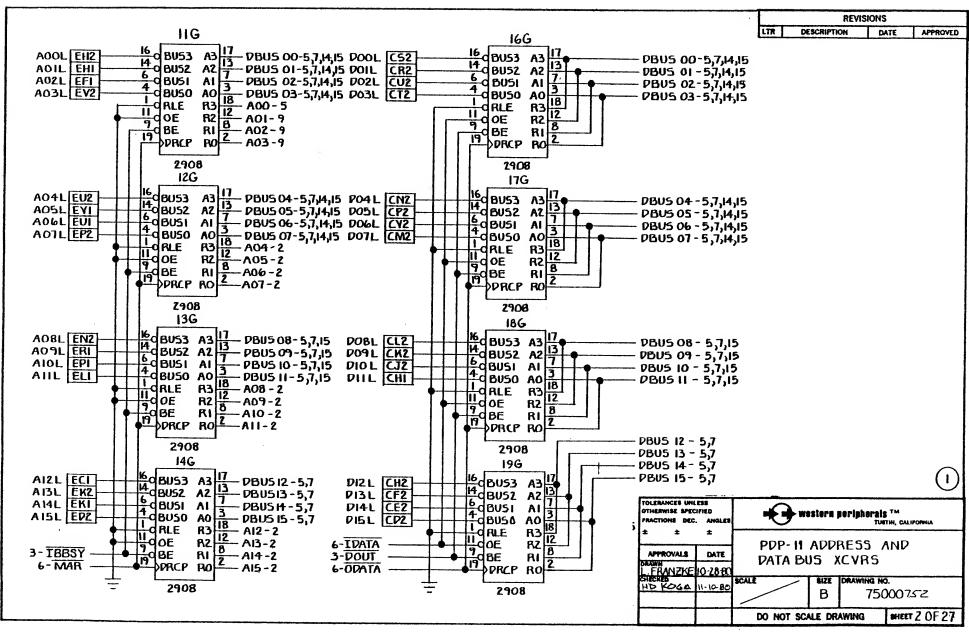
When using OPTION 1 either IBM Pack $\overline{\text{OR}}$ Remote Density Select can be opted, $\overline{\text{NOT}}$ both. In order for a customer to have both options, the following are the different combinations.

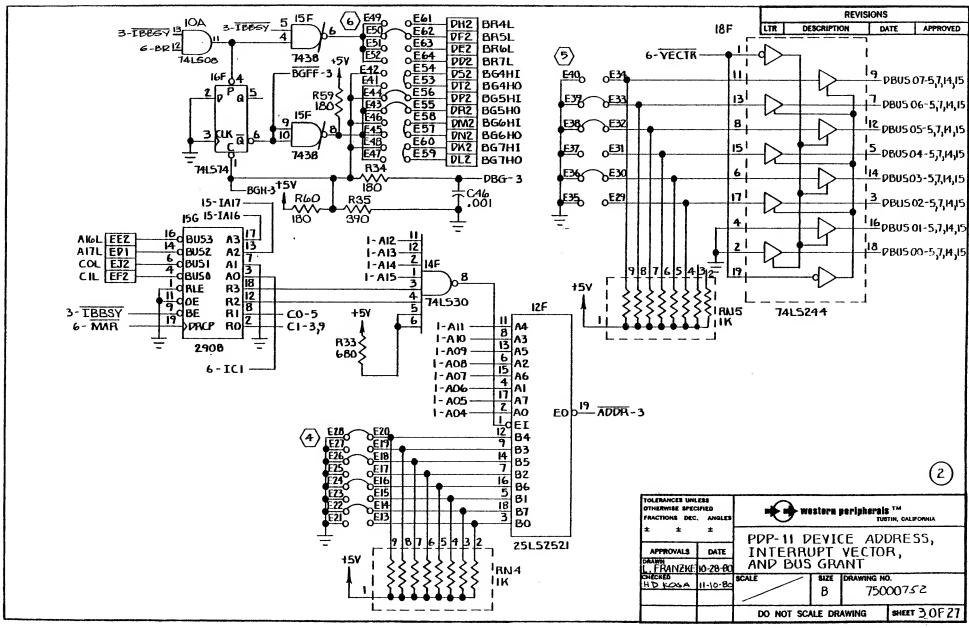
	IBM PACK	REMOTE DENSITY SELECT
1.	Standard	Standard and/or Option 1
2.	Option i	Standard
3.	Option 2	Standard and/or Option i

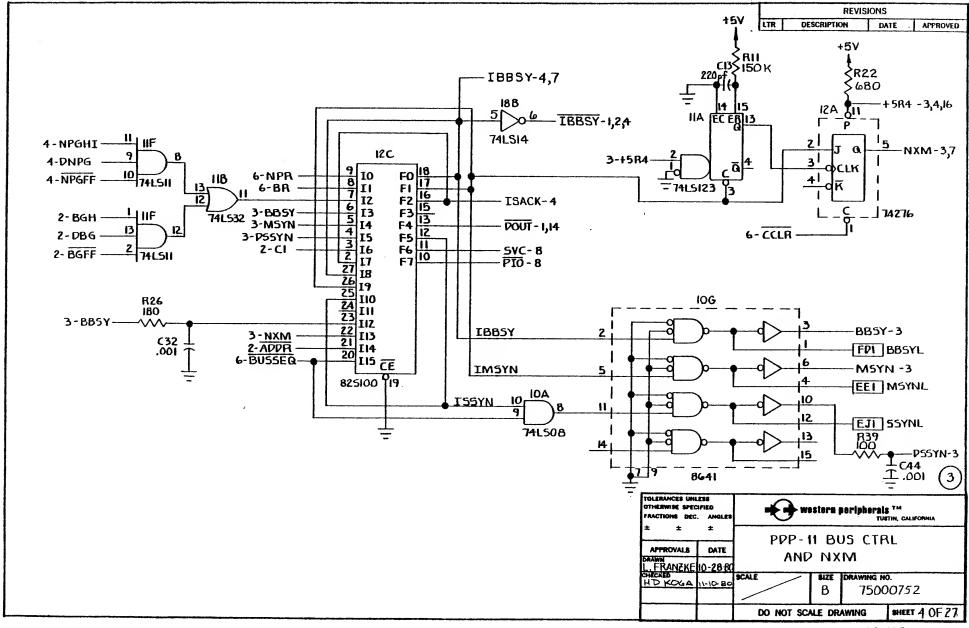
IBM PACK	REMOTE DENSITY SELECT	JUMPERS
Standard	Standard	E82 to E83, E84 to E85
Standard	Option i	E83 to E85, E82 to E84
Option i	Standard	E83 to E85, E84 to E85, E80 to E8i
Option 2	Standard	E82 to E83, E84 to E85, E78 to E79
Option 2	Option 1	E83 to E85, E82 to E84, E78 to E79

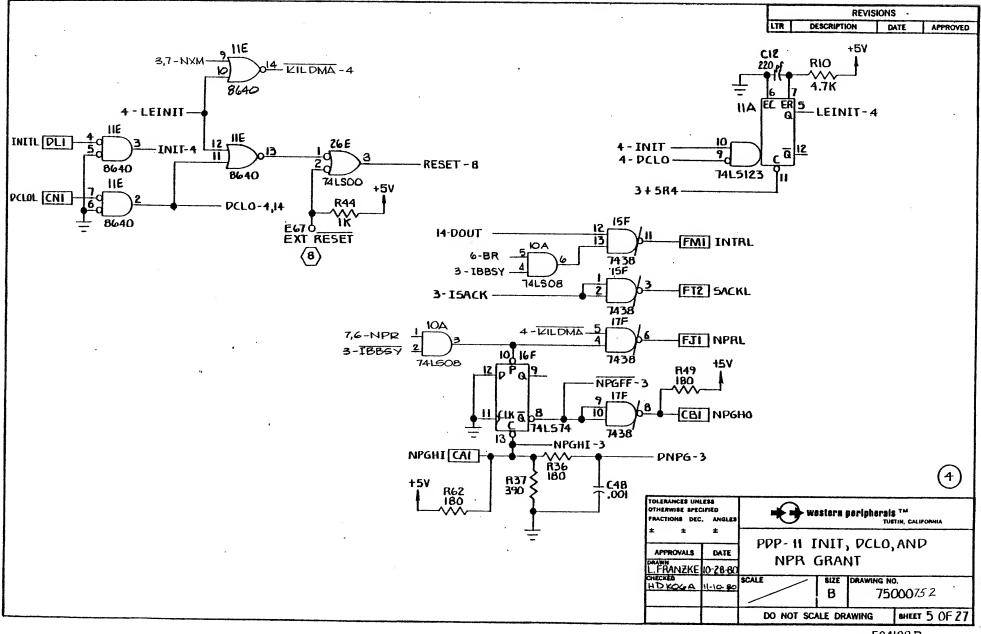
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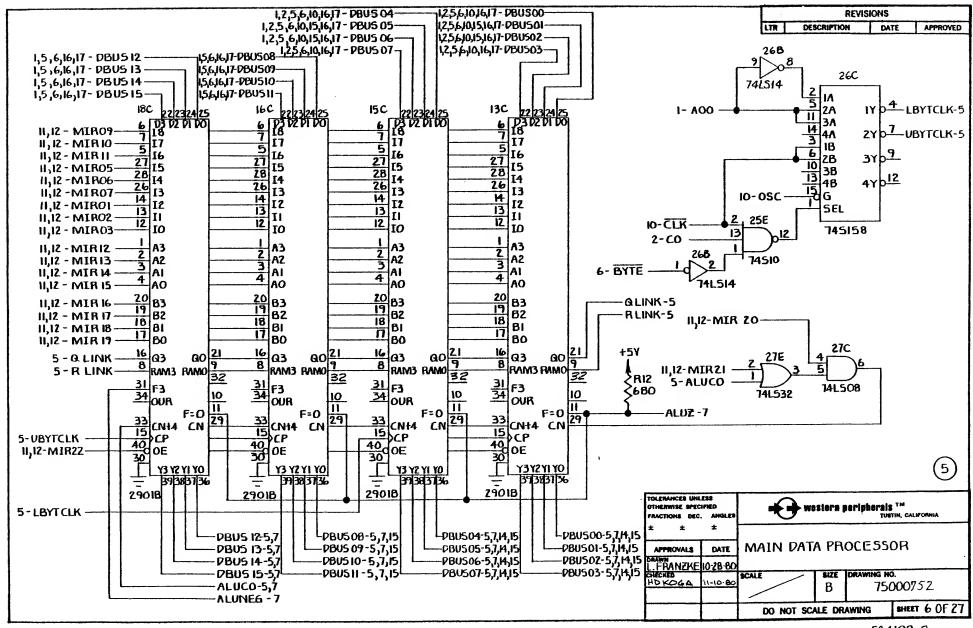
TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC ANGLES ± ± ±		→ we	stera p	eripheral	TM STIN, CALIFORNIA
		OPTIONS			
APPROVALS	DATE	TCIBI TAPE CONTROLLER			
DRAWN	6.17.81				
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		DO NOT SCALE DRAWING		SHEET 1A-27	

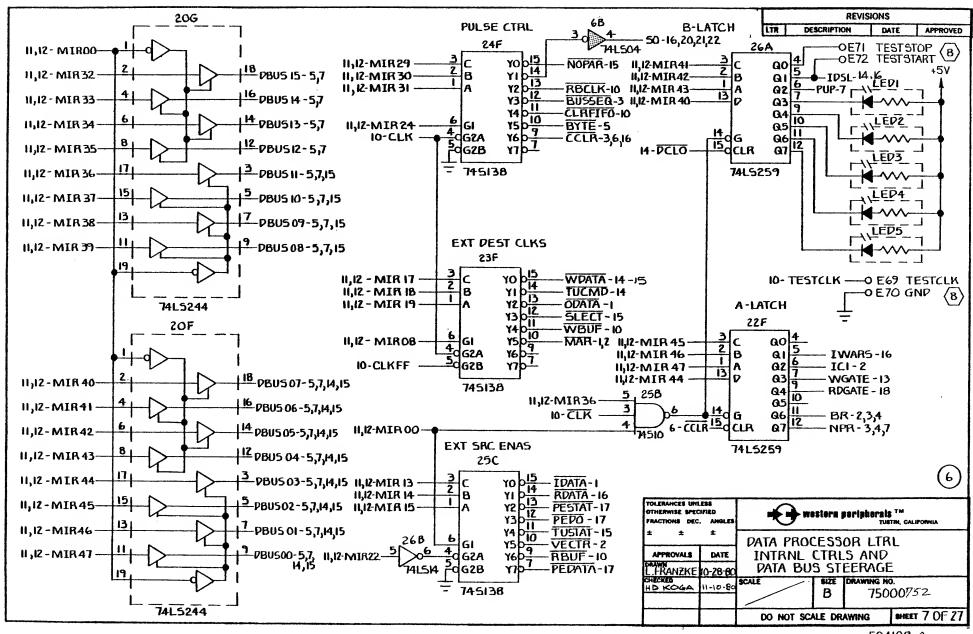


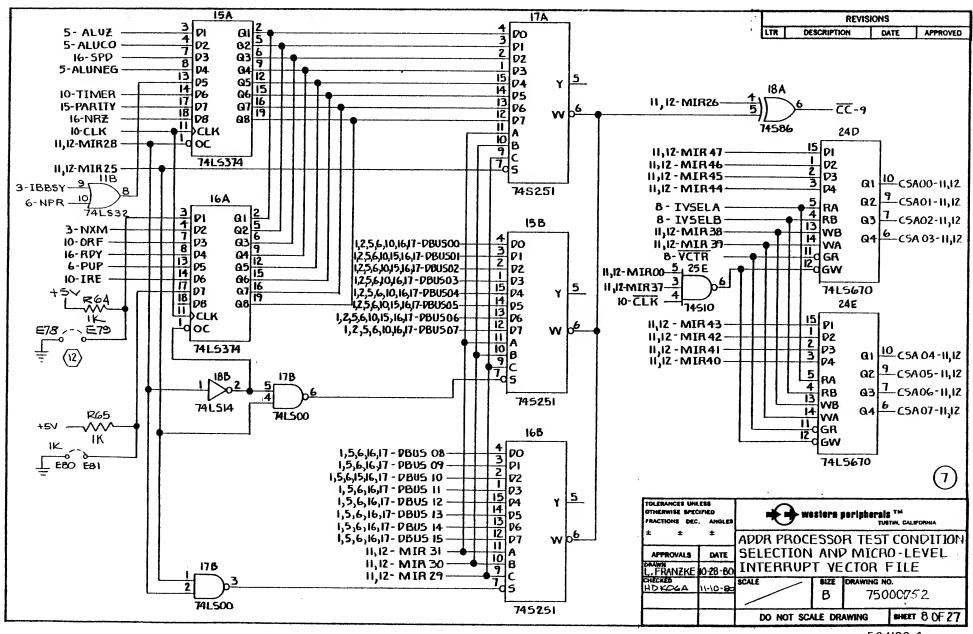


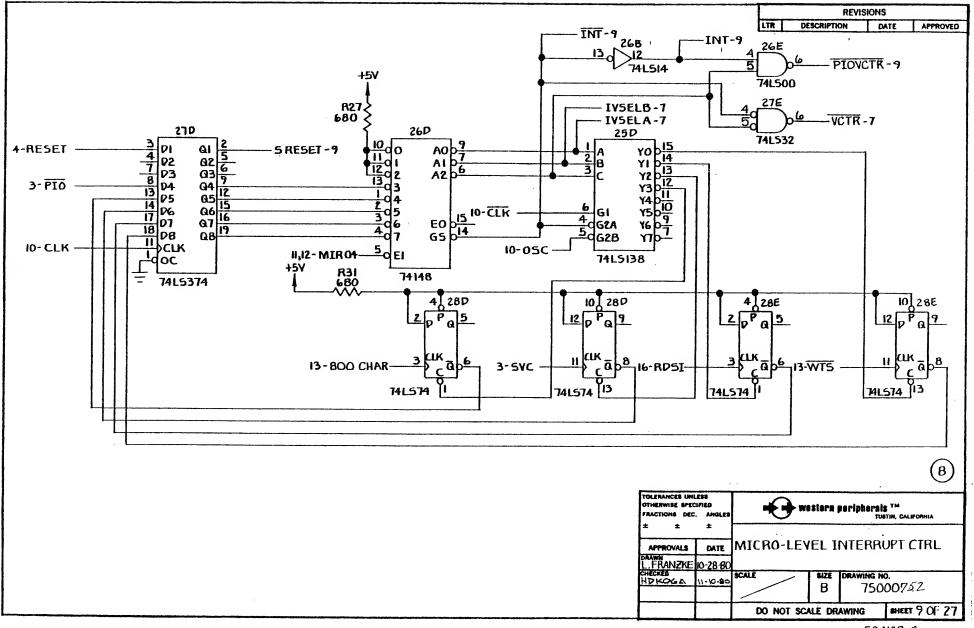












19A

YO

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YZ.

Y3

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D2

P3

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11,12-MIR47

11,12-MIR46

11,12-MIR45

11,12-MIR44

REVISIONS

APPROVED

C5A 00-11,12

CSA 01 -11,12

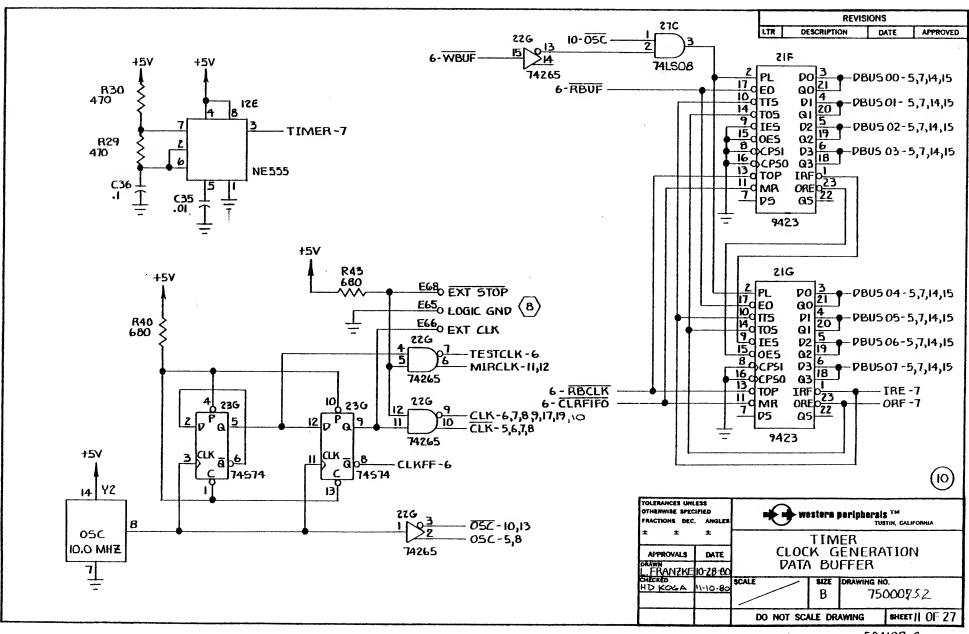
C5A 02-11,12

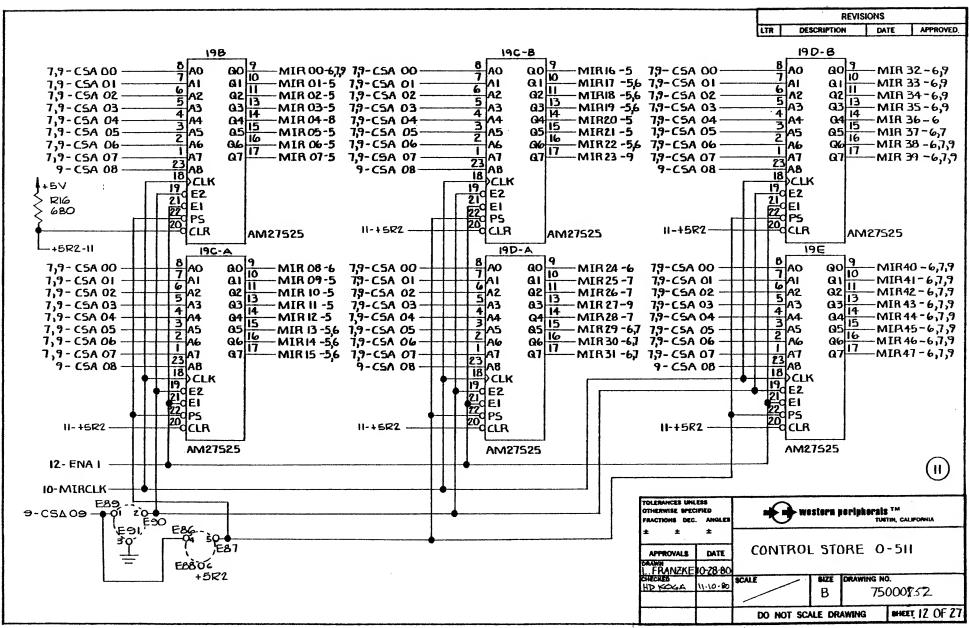
C5A03 - 11,12

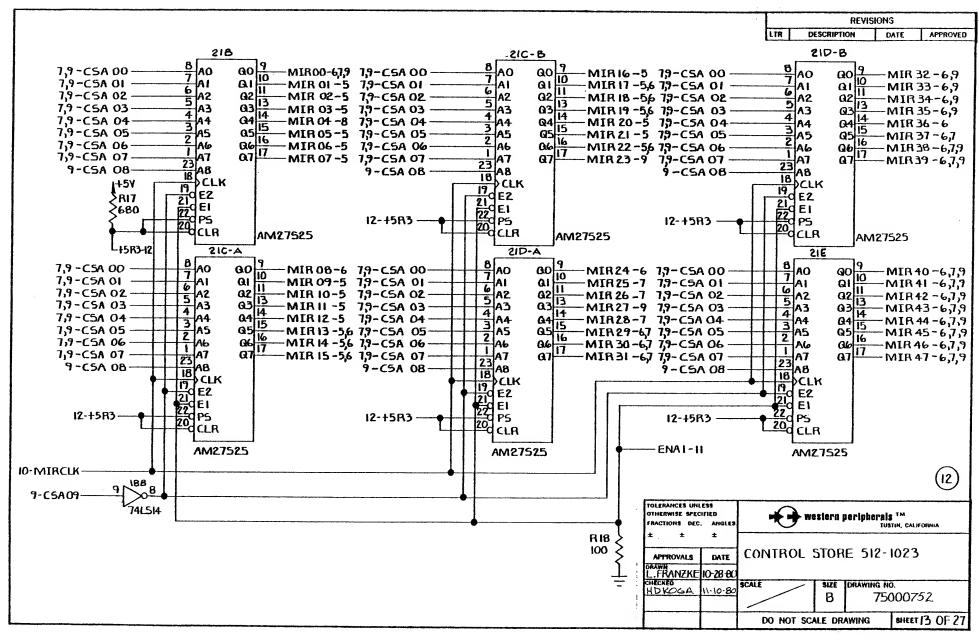
C5A04-11,12

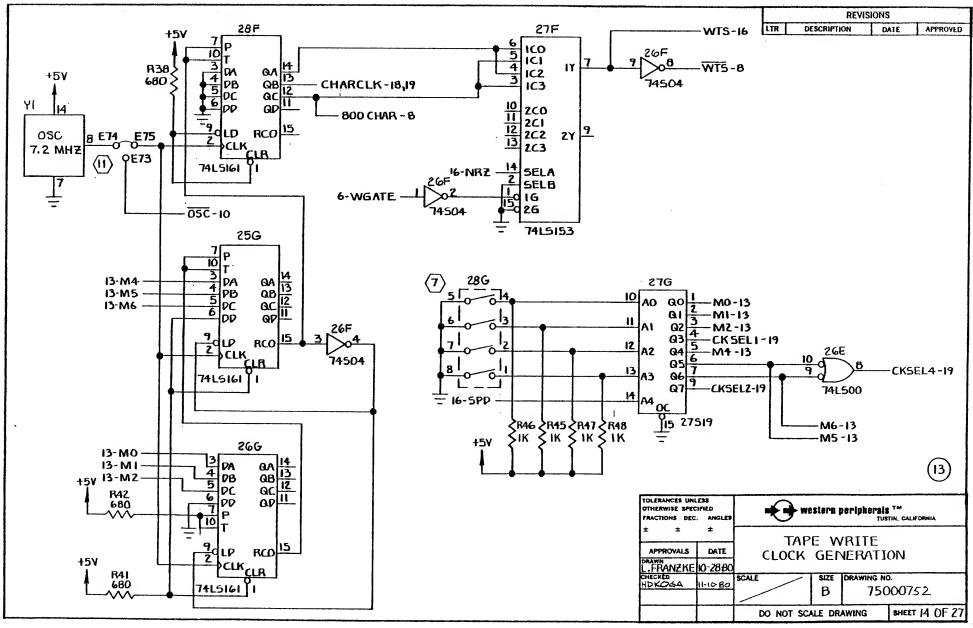
C5A 05-11,12

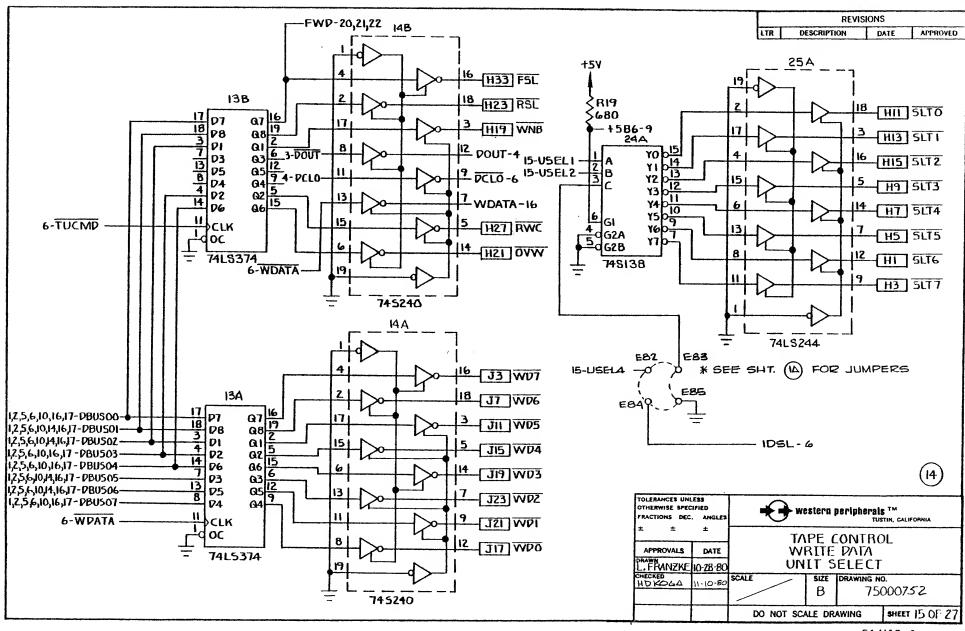
DESCRIPTION

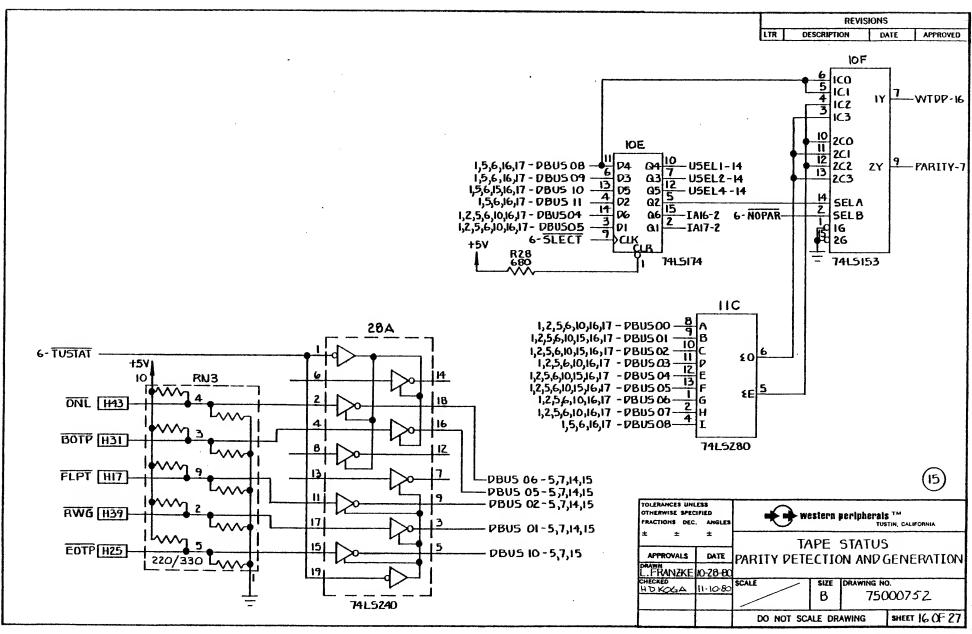


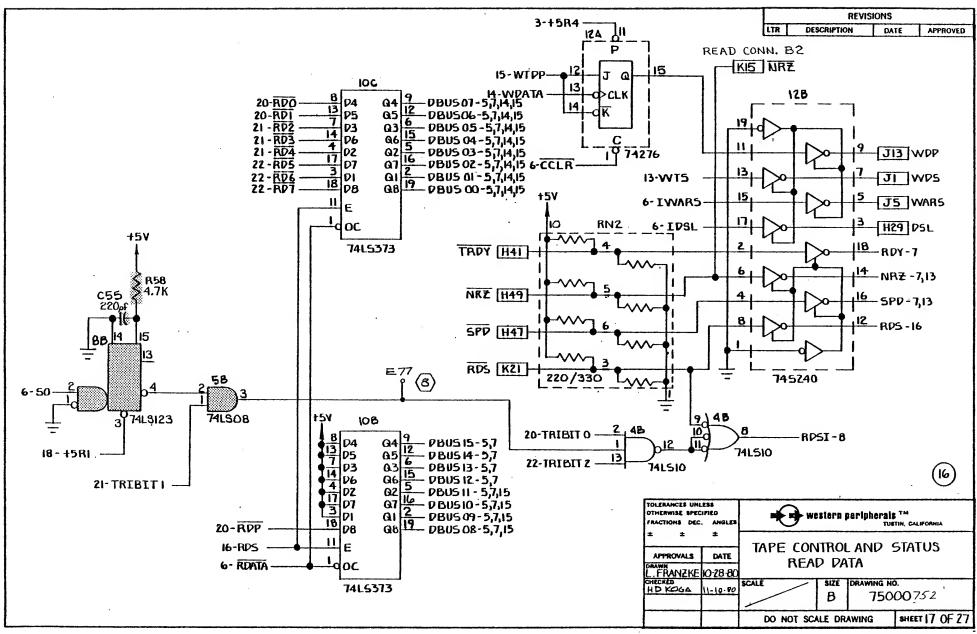


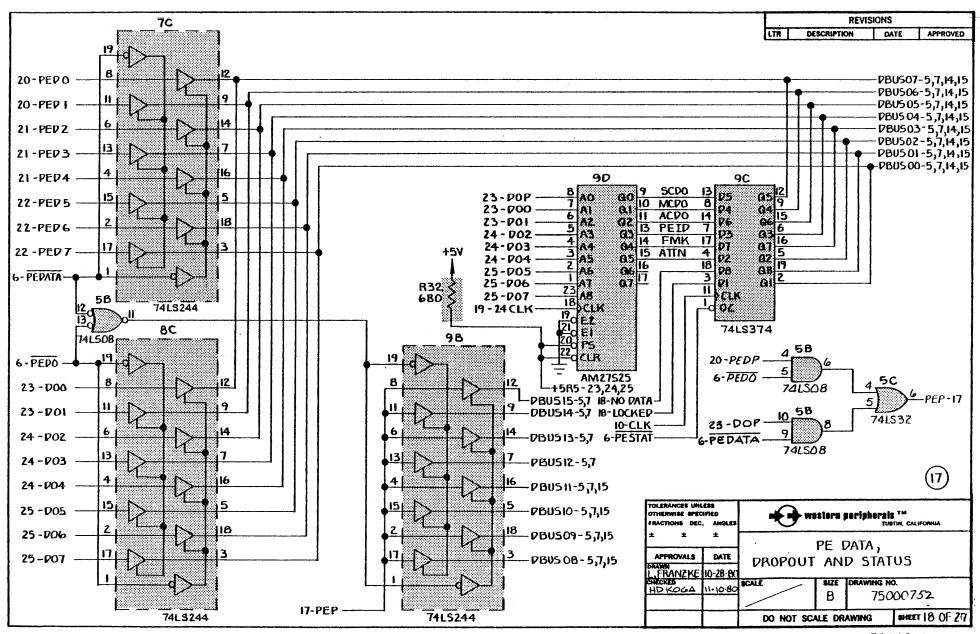


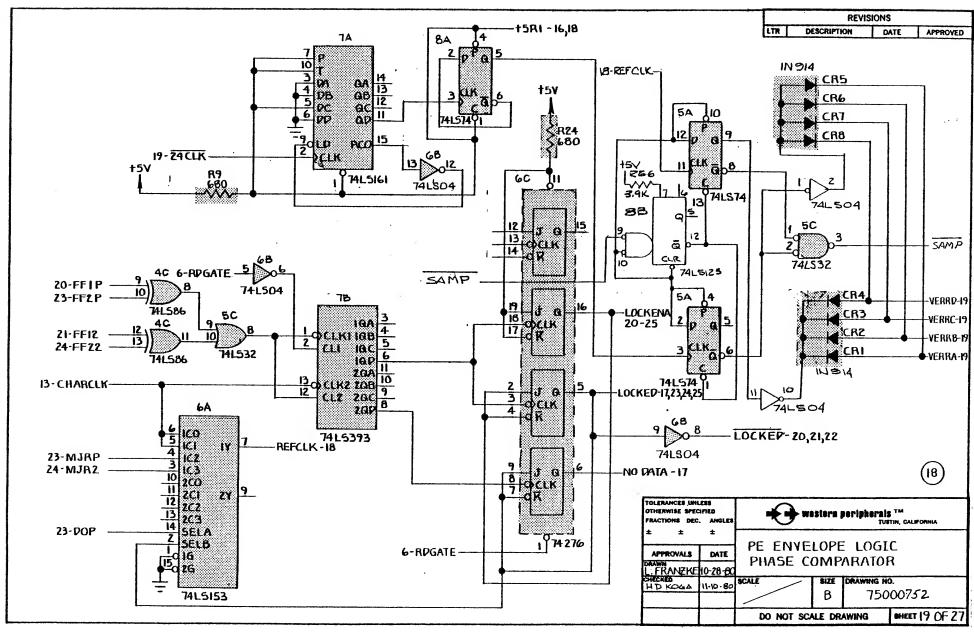


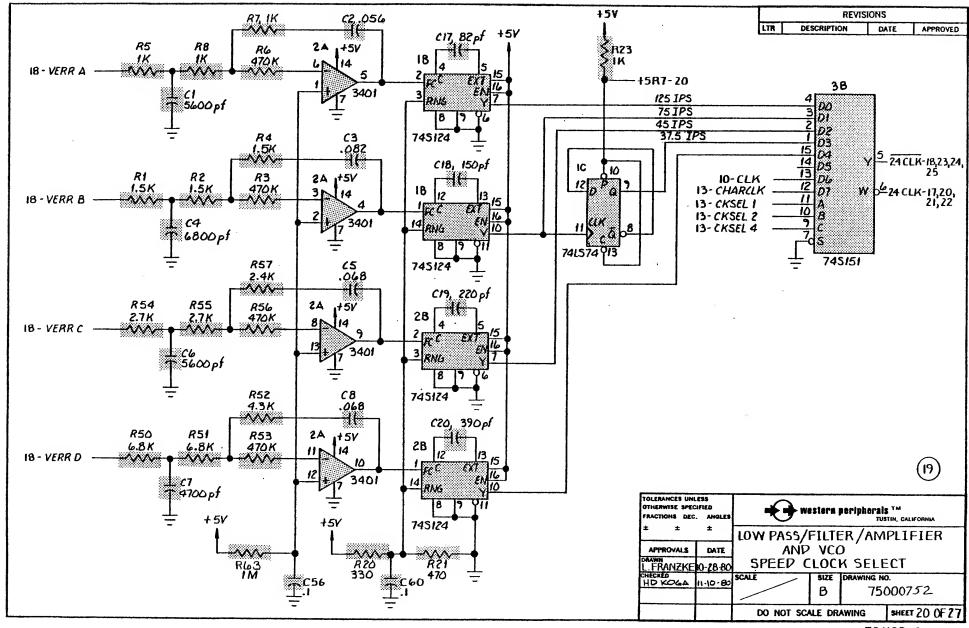


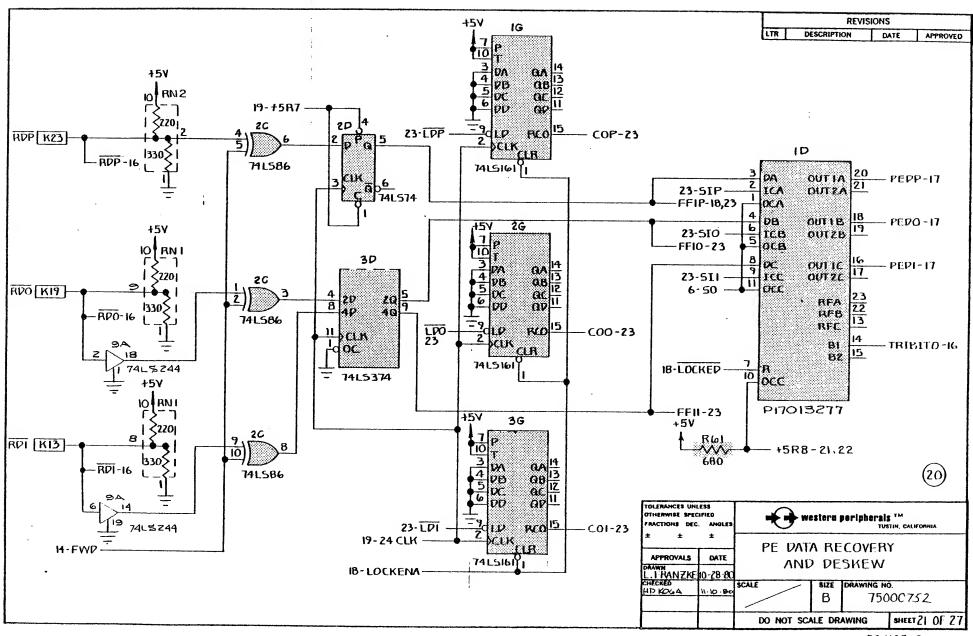


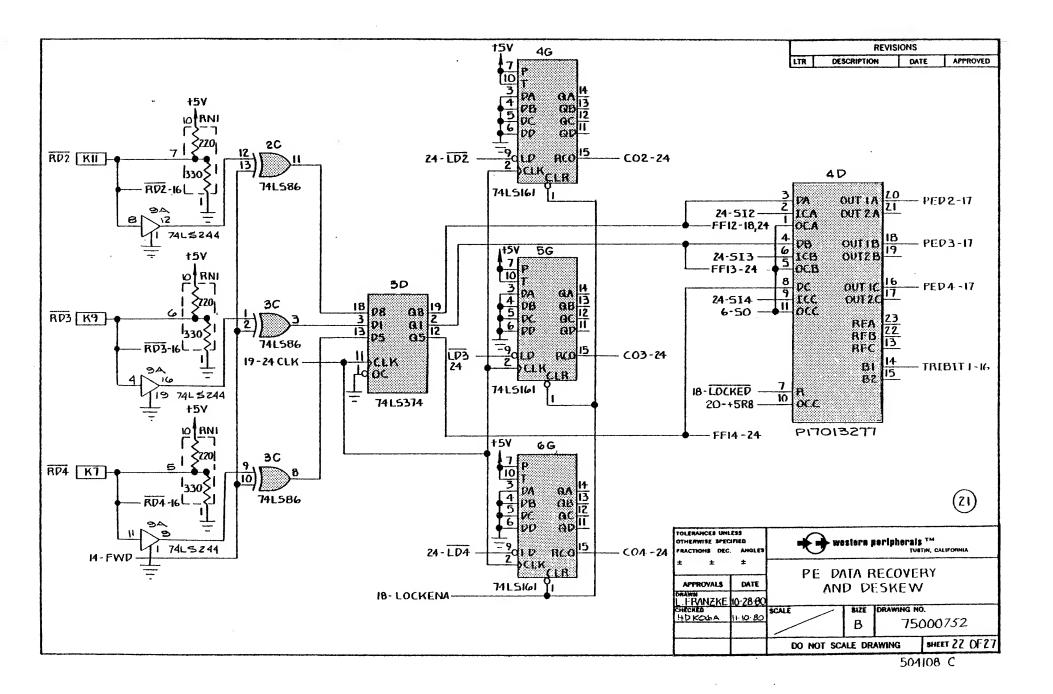


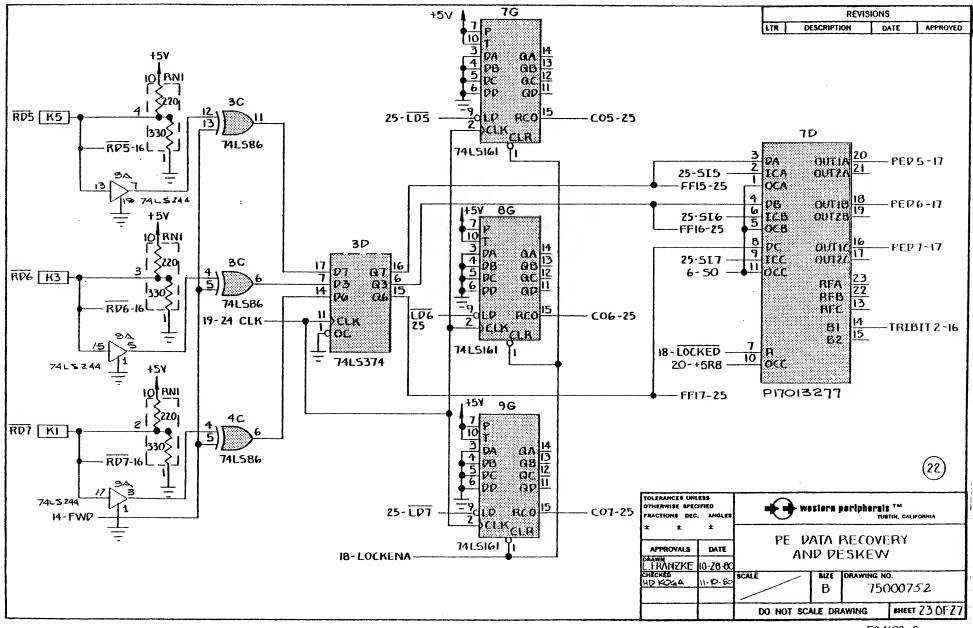


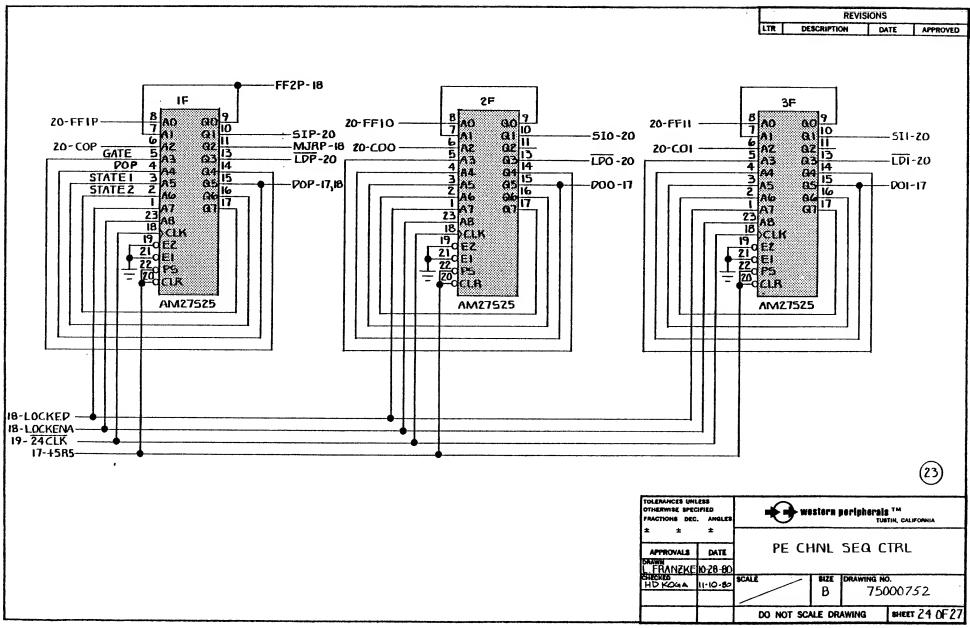


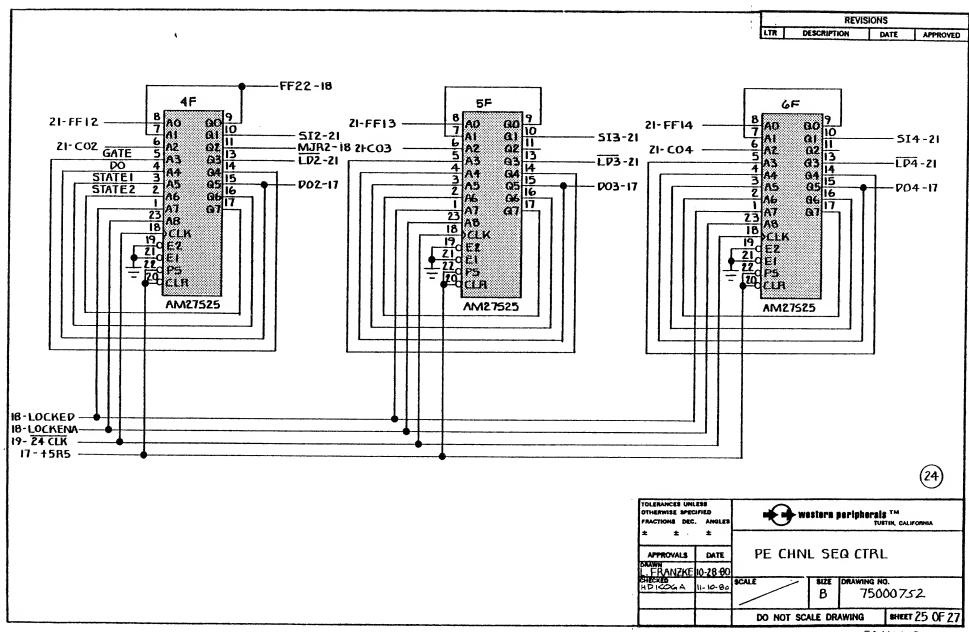




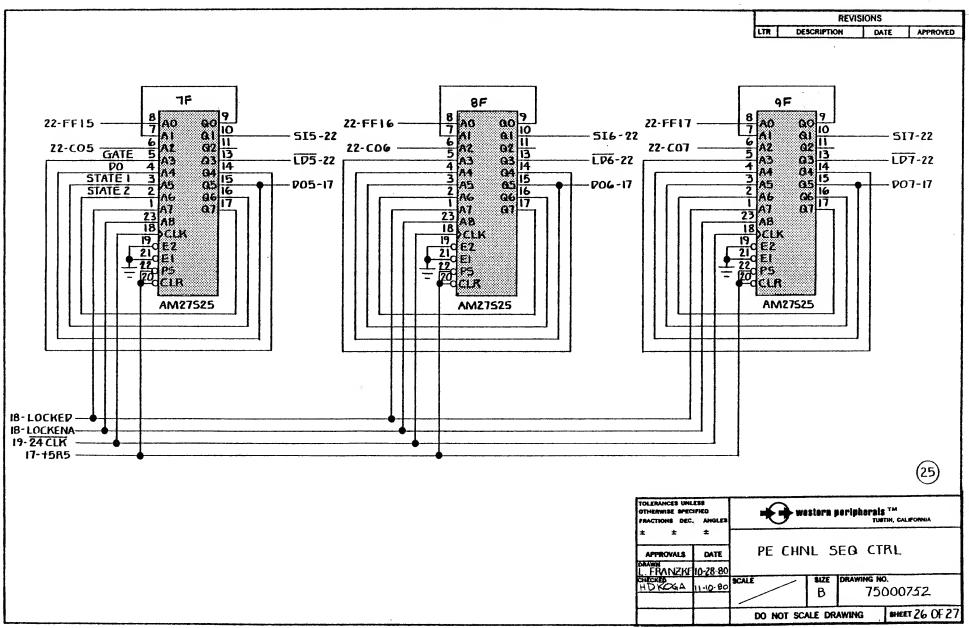








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DEVICE ADDRESS STD ADDR 7725208

ADDR	ADDR	E	DTS	INSTALLED
BIT	RANGE	JUMPERS	ADDR	JUMPERS
17	1 .		1	
16	1	•	1	1
15	1		1	1
14	l l			
13	l l		1	
12	1			
11	0/1	28-20	٥	X
10	0/1	27-19	1	
9	0/1	26-18	0	X
8	0/1	25-17	1	
7	0/1	24-16	0	X
6	0/1	23-15	1	
5	0/1	22-14	٥	X
4	0/1	21-13	ł	
3	Х		X	
2	X		Χ	
	X		Χ	
٥	X		X	

INSTALL JUMPERS FOR "Ø's" IN DESTRED ADDR

5 INTERRUPT VECTOR STD VECTOR 2248

VCTR BIT	E JUMPERS	STD VCTR	INSTALLED JUMPERS
7	40-34	ı	
6	39-33	0	Х
5	38-32	0	X
4	37-31		
3	36-30	0	Х
2	35-29	1	
		0	
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INSTALL JUMPERS FOR "Ø's" IN DESIRED VECTOR

	REVISIONS					
LTR	DESCRIPTION	DATE	APPROVED			

OSCILLATOR JUMPERS

OPERATION	E JUMPERS
TEST FIXTURE	E73→E75
NORMAL	E74 → E75

INTERRUPT PRIORITY LEVEL

BR4	BR5	BRL	BR7
E41 → E53	E43 → E55	E45 → E57	E47→E59
E42 → E54	E44→E56	E46→E58	E48→E60
E49→ E61	E50→E62	E51 → E63	E52→ E64
E55→E56	E53→E54	E53→E54	E53→E54
E57→E58	E57→E58	E55→E56	E55→ E56
E59→ E60	E59→E60	E59→E60	E57→E58
֡	E41 → E53 E42 → E54 E49 → E61 E55 → E56	E41 → E53 E43 → E55 E42 → E54 E44 → E56 E49 → E61 E50 → E62 E55 → E56 E53 → E54 E57 → E58 E57 → E58	$E41 \rightarrow E53$ $E43 \rightarrow E55$ $E45 \rightarrow E57$ $E42 \rightarrow E54$ $E44 \rightarrow E5\omega$ $E4\omega \rightarrow E56$ $E49 \rightarrow E\omega$ 1 $E50 \rightarrow E\omega$ 2 $E51 \rightarrow E\omega$ 3 $E55 \rightarrow E5\omega$ $E53 \rightarrow E54$ $E53 \rightarrow E54$ $E57 \rightarrow E58$ $E57 \rightarrow E58$ $E55 \rightarrow E5\omega$

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES		₩	ster a į	peripherals Tue	TM TIN, CALIFORNIA
* ±	±	SCHEMATIC			
APPROVALS	DATE	TC - 131 TAPE CONTROLLER			
C. Spada	12-15-80				III WELLIN
CHECKED		SCALE	8IZE	DRAWING NO	
			В	750	00752
)		DO NOT SCALE DRAWING			SHEET 27 OF 27

REVISIONS					
LTR	DESCRIPTION	DATE	APPROVED		
Α	INITIAL RELEASE	3-24-81	Olk		

PURPOSE

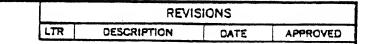
This modification provides capability to control 12.5 and 18.75 ips drives.

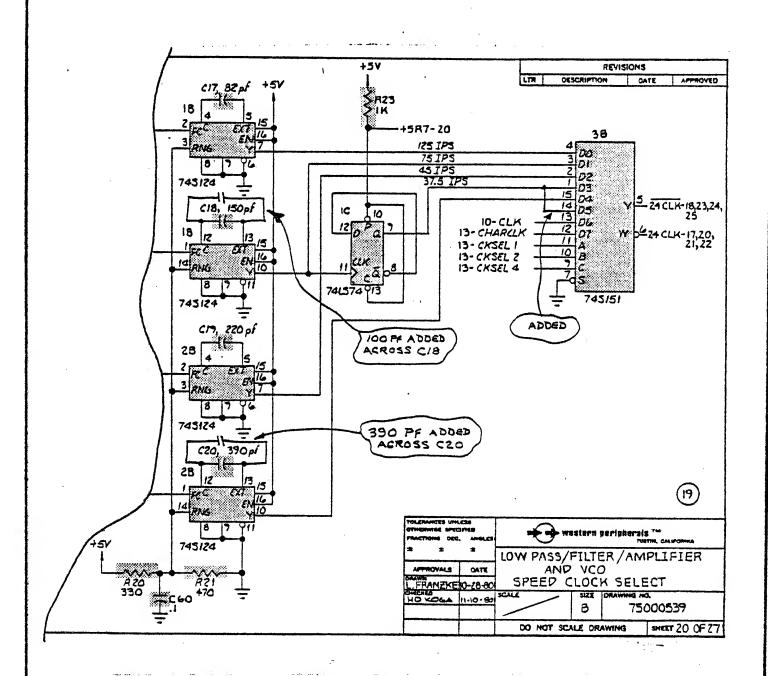
- 1. Rework TC131 Assy 60000601 as follows:
 - a. Replace PROM in Location 27G with PROM P17017492
 - b. Jumper 38-1 to 38-14
 - c. Add 100 pf capacitor in parallel to existing capacitor C18
 - d. Add 390 pf capacitor in parallel to existing capacitor C20
 - e. Identify the Assy by marking "CONF A" on it using contrasting ink
- 2. For 12.5 ips drives, switch 4 on the tape control adapter at the drive end of the control cable must be open. Close it for 18.75 ips drives.
- Material required:
 - a. Prom P17017492
 - b. 100 pf capacitor (W.P. P/N P15000136 or equivalent)
 - c. 390 pf capacitor (W.P. P/N P15000243 or equivalent)
- 4. The resultant changes to the TC131 schematic Sht (19) are shown on Sht 2 of this drawing.

NOTE: FOR NRZ ONLY UNIT (TC131N), SEE MOD DWG 79000709

MAR 2 6 1981

OTHERWISE SPEC	CIFIED	*	western	peripherals Tus	TM TIN, CALIFORNIA
APPROVALS	DATE		ation Drawi	-	
J. Wentich	3-24-81	parales .	l Configura	tion "A"	
CHECKED LLL/Z	3-24-81	SCALE	SIZE	DRAWING NO). 000683
		DO NO	T SCALE DR	AWING	SHEET 1 OF 2





MAR 26 1981

SCALE	SIZE	DRAWING HO),	
	A	79	000	7683
DO NOT SCA	NLE DRA	AWING	SHEET	2 of 2

	REVISIONS					
LTR DESCRIPTION DATE APPROVED						
A	INITIAL RELEASE	3-25-81	DSL,			

PURPOSE

This modification provides capability to control 12.5 and 18.75 ips drives.

- 1. Rework TC131N Assy 60000622 as follows:
 - a. Replace PROM in location 27G with PROM P17017492.
 - b. Identify the Assy by marking "CONF A" on it using contrasting ink.
- 2. For 12.5 ips drives, switch 4 on the tape control adapter at the drive end of the control cable must be open. Close it for 18.75 ips drives.
- Material required:
 - a. PROM P17017492

NOTE: FOR PHASE ENCODED UNIT, SEE MOD DWG. 79000683

MAR 2 6 1981

TOLERANCES UNI	CIFIED	Western peripherals TM TUSTIN, CALIFORNIA				
APPROVALS	DATE	Modification Drawing - TC131N Configuration "A"				
L.CRAWFORD	3-25-81	1013	on configu	ration A		
Wildentich	3-25-81	SCALE SIZE DRAWING NO.				
		79000709				
		DO NOT SCALE DRAWING SHEET 1 OF 1				

DRAWN BY	DATE	CHECKED BY	DATE
L. Crawford			

BILL OF MATERIALS wostern peripherals ***

DWG. NO.	REV
P18001313	G
TITLE	

REV F: Incorp. ECO 938
REV G: Incorp. ECO 947

REV G:	Incorp	. ECO 947	7		SHT_1	0F_	PROM Set, TC131, NRZ
ITEM	QUAN	UNITS		R EV	DESCRIPTION	t	REF.DESIG.
01	_1		P17019704		PROM, 27S19		27G
02	1	·	P17019712	D	PROM, 27S25		19В
03	11		P17019936	<u>E_</u>	PROM, 27S25		21B
04	4 1 P17019720 D		PROM, 27S25		19C-A		
05	_1		P17019738	Ω_	PROM, 27S25		19С-В
06	_1		P17019746	E	PROM, 27S25	- 7	21C-A
07	1		P17019753	E	PROM, 27S25		21C-B
80			P17019779	0_	PROM, 27S25	_ _	19D-A
09	1		P17019787	D	PROM, 27S25	_ _	19D-B
10	1		P17019795	E	PROM, 27S25		21D-A
11			P17019803	F.	PROM, 27S25		21D-B
12			P17019811	D_	PROM, 27\$25		19E
13	- 1		P17019829	E	PROM, 27S25		21E '
14	1		P17019928	В	PROM, 82S100		120
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				_			
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				- -		-	
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							JUN 1 2 1981

DRAWN L. Craw	BY DI ford 4-1	•	KED BY DATE	BILL OF MATERIALS western peripherals **	DWG. NOT TITLE SHT_1 OF 1 PROP). P18001321 M Set, TC131/151, PE	REV A
ITEM	QUAN	UNITS	PART NUMBEI	DESCRIPTION	- "S" FOR S		
01	9		P17019837	PROM, 27S25	1F-9F(TC	131), 1E-9E(TC151)	
02	1		P17019761	PROM, 27S25	· 9D		
	·						
		-					
			-				
	-						

04/22/01 BULL OF NATERIAL TOP LEVEL ASSEMBLY LIST PAGE 1
ASSEMBLY NO. P60000501 REVISION F DESC: ASSY TO 131 TAPE CONTRIBLED

100 197 197 197	SEG	PART NUMBER	DESCRIPTION	c	эн өтү	TIRS SUR EXC L	LOCATION	EFF. DVH:		
001 P17000197	000	1.80	MO IMPENTORY LIEW		117	. 0		03/05/91		
000 P 7000157	001	P17000027	IC 74LSOO GUAD 2 THP NAND		5	. 0	170,266			
000 P17000157 1C 74504 HEX INVERTER 1	0.05	P17000157	10 74LSO4 HEX INVERTER		,	. ()				
Old Pi7000710 IC 7481832 QUAD 2 THP NR	003	P17000159	1C 74804 HFX INVERTER		i		28F			
Old P17000910	004	P17000233	IC 74LS08 QUAD 2 INP AND		3					
Old P17000910	005	P17000290	IC 74910 TRIPLE 3 INP NAND		5					
Old P17000910	606	P17000308	10 74LS10 TRIPLE 3 INP MAND		1					
Old P17000910	007	P17000057	IC 74LS11 TRIPLE 3 INP AND		1					
Old P17000910	908	P17000498	IC 74LS14 HEX INVERTER ST		5					
O12 P17001561 1C 74874 FLIP/FLOP DUAL D	009	P17000852	IC 74L930 8 INP NAME		1					
O12 P17001561 1C 74874 FLIP/FLOP DUAL D	010	P17000910	IC 74LS32 QUAD 2 INP OR		3					
O12 P17001561 1C 74874 FLIP/FLOP DUAL D	011	P17001041	10 7438 QUAD P INP NAME OF THE		5				Oth Su	Carlo Str.
O13 P17001577	012	P17001561	IC 74974 FLIP/FLOP DUAL D						FILABIES	ACCEPTED.
013 017001579 1C 741854 ELIP/ELOP DUAL D 1 CN 0 29D DUEL INF 01/05/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81 90/44 90/45/81	013								CHANGE	UNDE
014 117001751	013			1						
015 P17001749	014			•					1044	9
016 P17002105	015									
018 P17002403	016								. 9/5H	9.
018 P17002403										
021 P17002577 1C 748151 SEL MUX I OF B LN 1 0 38 0170570 022 P17002627 1C 74LS153 SEL MUX DUAL A-1 3 0 6A-10F, 27F 01705761 024 P17002627 1C 74LS153 SEL MUX QUAD 2-1 1 0 24B 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 026 P17003297 1C 74LS151 SEL MUX REVER DETAIL BER 3 0 10F 01705761 027 P17003641 1C 74LS240 DRVR/RCVR OCTAL BER 3 0 12A-12B-14B 01705761 028 P17003690 1C 74LS240 DRVR/RCVR OCTAL BER 3 0 25A-7B-7C-8C 01705761 028 P17003690 1C 74LS244 DRVR/RCVR OCTAL BER 2 CDN 0 24G-18F-20T 01705761 029 P17003990 1C 74LS245 DRVR/RCVR OCTAL BER 2 CDN 0 24G-18F-20T 01705761 029 P17003999 1C 74LS259 B RIT ADDRSSNEF LCI 2 0 25A-227 01705761 030 P17003993 1C 74LS259 B RIT ADDRSSNEF LCI 2 0 25A-227 01705761 031 P17003993 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 032 P17004003 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 033 P17004110 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 034 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 035 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 036 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 037 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 038 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 039 P17009077 1C 24LS373 OCTAL TYPE D F/F 7 0 130-16C 01705761 039 P17009079 1C 24LS374 OCTAL TYPE									921R	9.
021 P17002577 1C 748151 SEL MUX I OF B LN 1 0 38 0170570 022 P17002627 1C 74LS153 SEL MUX DUAL A-1 3 0 6A-10F, 27F 01705761 024 P17002627 1C 74LS153 SEL MUX QUAD 2-1 1 0 24B 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 025 P17002890 1C 74LS151 SEL MUX QUAD 2-1 1 0 24G 01705761 026 P17003297 1C 74LS151 SEL MUX REVER DETAIL BER 3 0 10F 01705761 027 P17003641 1C 74LS240 DRVR/RCVR OCTAL BER 3 0 12A-12B-14B 01705761 028 P17003690 1C 74LS240 DRVR/RCVR OCTAL BER 3 0 25A-7B-7C-8C 01705761 028 P17003690 1C 74LS244 DRVR/RCVR OCTAL BER 2 CDN 0 24G-18F-20T 01705761 029 P17003990 1C 74LS245 DRVR/RCVR OCTAL BER 2 CDN 0 24G-18F-20T 01705761 029 P17003999 1C 74LS259 B RIT ADDRSSNEF LCI 2 0 25A-227 01705761 030 P17003993 1C 74LS259 B RIT ADDRSSNEF LCI 2 0 25A-227 01705761 031 P17003993 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 032 P17004003 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 033 P17004110 1C 74LS259 GUAD J-K ELIPTIC P 2 0 170-15B-10B 01705761 034 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 035 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 036 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 037 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 038 P17005103 1C 74LS374 OCTAL TYPE D F/F 7 0 130-16C 01705761 039 P17009077 1C 24LS373 OCTAL TYPE D F/F 7 0 130-16C 01705761 039 P17009079 1C 24LS374 OCTAL TYPE				1					1210	/ /
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023 P17002767 IC 74LS157 SEL/MUX QUAD 2-1 1 0 24B 01705781 024 P17002825 IC 74LS161 CNIR 4 BIT BINARY 13 0 7A, 22E, 1E-96 01705781 025 P17002890 IC 74LS161 CNIR 4 BIT BINARY 13 0 7A, 22E, 1E-96 01705781 026 P17002827 IC 74LS161 CNIR 4 BIT BINARY 1 1 1 1 1 1 026 P17002827 IC 74LS161 CNIR 4 BIT BINARY 1 1 1 1 1 1 027 P17001641 IC 74S240 DRVR/RCVR OCTAL BER 3 0 14A, 12B, 14R 01705781 028 P17003690 IC 74LS244 DRVR/RCVR OCTAL BER 3 0 12A, 12B, 14R 01705781 028 P17003690 IC 74LS244 DRVR/RCVR OCTAL BER 3 0 25A, 7B, 14R 01705781 028 P17003690 IC 74LS244 DRVR/RCVR OCTAL BER 1 CON 0 23G, 18F, 201 01705781 029 P17003767 IC 74LS244 DRVR/RCVR OCTAL BER 2 CON 0 20G 01705781 030 P1700399 IC 74LS244 DRVR/RCVR OCTAL BER 2 CON 0 20G 01705781 030 P1700399 IC 74LS244 DRVR/RCVR OCTAL BER 2 CON 0 20G 01705781 031 P17003994 IC 74LS299 B BIT ADDRESTLE LCH 2 0 27A, 22I 01705781 032 P17004003 IC 74255 QUAD CONP-OUTPUT GATE 1 0 22G 01705781 033 P17004110 IC 74LS290 BBIT PRTY CENTCHECK 1 0 12G 01705781 034 P17005133 IC 74LS394 OCTAL TYPE D F7F 2 CON 0 12B, 16C 01705791 035 P17005133 IC 74LS394 OCTAL TYPE D F7F 2 CON 0 12B, 16C 01705791 036 P17005133 IC 74LS394 OCTAL TYPE D F7F 2 CON 0 12B, 16C 01705791 037 P170050372 IC 74LS394 OCTAL TYPE D F7F 2 CON 0 12B, 16C 01705791 038 P17005133 IC 74LS394 OCTAL TYPE D F7F 2 CON 0 12B, 16C 01705791 039 P170090903 IC 2901R 4 RIT BLICE 4 6 10B, 14C 01705791 039 P170090903 IC 2901R 4 RIT BLICE 5 6 11B, 14C 14T, 14T, 14T, 14T, 14T, 14T, 14T, 14T,										
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O32 P17004003 IC 74276 QUAD J-K FELP/FICP 2 0 12A-AC 01705/81										
033 P17004110 1C 74LS280 9BJT PRTY GENZCHECK 1 0 11C 01705/51 034 P17005141 1C 74LS273 OCTAL D TYPE LATCH 2 0 10B.10C 01705/51 035 P17005133 1C 74LS374 OCTAL TYPE D F/F 7 0 13A.15A.17A. 01705/61 035 P17005133 1C 74LS374 OCTAL TYPE D F/F 1 CON 0 13B.9C.3B. 01705/61 035 P17005133 1C 74LS374 OCTAL TYPE D F/F 2 CON 0 270 01705/61 035 P17005133 1C 74LS374 OCTAL TYPE D F/F 2 CON 0 270 01705/61 036 P17005372 1C 74LS373 DUAL 4 BIT DIM CNIR 1 0 70 01705/61 037 P17006214 1C 74LS670 4 X 4 RFE FILES 2 0 24B.124F 01705/61 038 P17007353 1C 2901R 4 RIT SLICE 4 COR 0 19C 10C.174 01705/61 039 P17009953 1C 2901R 4 RIT SLICE 4 COR 0 19C 01705/61 039 P17009903 1C 2908 BUAD RUS TRANSCUTURE 7 0 11E HIGH 17 01705/61 040 P17009903 1C 2710 MICROPROSPAN CMRP 4 0 170 01705/61 041 P17010893 1C 8640 RUAD THE ROPP 4 0 170 01705/61 043 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 043 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 044 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 045 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 044 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 045 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 046 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 047 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 048 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 049 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 049 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 040 P17000951 1C 8641 BUAD THE ROPP 4 0 170 01705/61 040 P17000000000000000000000000000000000000										
034 P17005141 IC 74L5373 OCTAL D TYPE LATCH 2 0 10R-10C 01705781 035 P17005133 IC 74L5374 OCTAL TYPE D F7F 7 0 13A, 15A, 17A, 01705781 035 P17005133 IC 74L5374 OCTAL TYPE D F7F 1 CON 0 0 13B, 9C, 3D, 01705781 035 P17005133 IC 74L5374 OCTAL TYPE D F7F 2 CON 0 0 270 01705781 036 P17005372 IC 74L5374 OCTAL TYPE D F7F 2 CON 0 270 01705781 036 P17005372 IC 74L5373 DUAL 4 RIT DIN CNIR 1 0 78 01705781 037 P17005214 IC 74L5373 DUAL 4 RIT DIN CNIR 1 0 78 01705781 038 P17009853 IC 2901R 4 RIT SLICE 4 6 6 478, 15C, 177 01705781 039 P17009083 IC 2901R 4 RIT SLICE 4 CON 0 19C 01705781 039 P17009087 IC 2908 RUAD RUS TRANSCITURE 5 0 110 HRRU 177 01705788 04										
035 P17005133 IC 74L5374 OCTAL TYPE D F7F 7 0 13A, 15A, 17A, 01705781 035 P17005133 IC 74L5374 OCTAL TYPE D F7F 1 CON 0 13B, 9C, 3D, 01705781 035 P17005133 IC 74L5374 OCTAL TYPE D F7F 2 CON 0 270 04705781 036 P17005372 IC 74L5373 DUAL 4 BIT DIN CNIR 1 0 78 01705781 037 P1700A214 IC 74L5373 DUAL 4 BF6 F1L55 2 0 24D, 29F 01705781 038 P17007853 IC 2901B 4 BIT SLICE 4 CON 0 19C, 19C, 17C, 17C, 17C, 17C, 17C, 17C, 17C, 17										
035 P17005133 1C 74L5374 0CTAL TYPE D F7F 1 CON 0 13B, 9C, 3B, 01705781 035 P17005133 1C 74L5374 0CTAL TYPE D F7F 2 CON 0 270 04705791 036 P17005372 1C 74L5373 DURI 4 BIT DIN CNIR 1 0 78 04705781 037 P17008214 1C 74L5373 DURI 4 BIT DIN CNIR 1 0 78 04705781 038 P17009853 1C 29018 4 BIT SLICE 4 CON 0 13C, 13C, 13C, 13C, 13C, 13C, 13C, 13C,										
035 P17005133 IC 74L5374 DCTAL TYPE D F/F 2 CON O 270 O170579] O36 P17005072 IC 74L5073 DUAL 4 RIT DIM CNIR I O 78 O170579] O1705791 O1705791 O1705791 O1705791 O1705791 O1705791 O1705791 O1705791 O1705795										
036 P17005372 1C 74L5323 DUAL 4 BIT DIN CNIR 1 0 78 01705781 037 P17006714 1C 74L5670 4 X 4 RF6 FILES 2 0 240,29F 01705701 038 P17009850 1C 29018 4 BIT SLICE 4 0 130,150,150, 04705701 039 P17009853 1C 29018 4 BIT SLICE 4 C0M 0 190 01705701 039 P1700987 1C 2908 BUAD BUS TRABECTIVER 5 0 110 BBRU FW. 04705701 040 P17009903 1C 2910 MICROPHOCPAN (MIRER 4 0 176 01705701 041 P17010893 1C 2910 MICROPHOCPAN (MIRER 4 0 176 01705701 042 P17008244 1C 2630 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8630 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8630 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043 P17008251 1C 8631 BUAD FIRE ROPH 4 0 176 01705701 043										
037 P17008014 TC 74L8670 4 X 4 REC FILES 2 0 240,26E 01705701 038 P17009050 TC 29018 4 BIT SLICE 4 00 0 100, 100, 100, 100, 100 039 P17009053 TC 29018 4 BIT SLICE 4 00 0 100 0 100, 100 039 P17009087 TC 2908 8UAD RUS TRABECTIVER 5 0 110 110 110 110 040 P17009000 TC 2910 MICROPHOSPAN (MIRES 4 0 170 0 170 041 P170109000 TC 2910 MICROPHOSPAN (MIRES 4 0 170 0 170 042 P17008044 TC 9630 RUS TRABECTIVER 5 0 170 0 170 043 P170080951 TC 8630 RUSD TRABECTIVER 5 0 170 0 170 044 P170080951 TC 8630 RUSD THE MOVELER 5 0 170 0 170 045 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 170 047 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 170 048 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 170 049 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 170 040 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 040 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 041 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 041 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 042 P170080951 TC 8631 RUSD THE MOVELER 5 0 0 170 0 043 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 044 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 045 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 045 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 046 P170080951 TC 8631 RUSD THE MOVELER 5 0 170 0 047 P170080951 TC 8631 RUSD THE MOVELER 5 0 0 170 0 047 P170080951 TC 8631 RUSD THE MOVELER 5 0 0 0 047 P170080951 TC 8631 RUSD THE MOVELER TUSD										
038 P17007853 IC 2901R 4 RIT SLICE 5 6 438, 138, 138, 138, 138, 138, 138, 138, 1										
038 P17009853										
037 P17007087									•	
040 P17009903										
041 P17010893										
042 P17063244			TO ESTED PRICHED SOURCE (PRINT) II		1					
043 P17008951										
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· JUL 16 1981

-04/22/81 BILL OF MATERIAL TOP LEVEL ASSEMBLY LIST PAGE 2 -ASSEMBLY NO. P40000401 REVISION XF DESC: ASSY TO 131 TAPE CONTROLLED

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P14000426

P14000425

P14000425

P14000467

P14000457

P14000509

P14000541

P14000508

P14000609

P14000616

P14000540

PART NUMBER SEQ DESCRIPTION CON GIY HRS SUB EXC L LOCATION BLE DATE (144 P17008889 IC 9423 64 X 4 FIFO 21F, 210 01705791 (H45 P17015009 . 📆 IC NESSS TIMER - 1 1:21 01/05/01 IC 25LS2521 8 BIT COMPARATOR 046 P17009085 1 . 0 12F 01/05/81 047 P17009705 JC 27819 256 BIT PROM i . 0 DAM PROM 03/05/91 IC 27925 512 X 8 REG PROM 049 P17009754 22 . () RAW PROMS 03705791 049P17015280 IC 828100 BIPOLAR FPLA 16X49X9 1 RAW PROM . 0 03/05/91 050 NO INVENTORY ITEM . 0 00705791 051 NO INVENTORY ITEM . () 03705791 052 NO INVENTORY ITEM . 0 03/05/91 053 NO INVENTORY ITEM . 0 00/05/90 054 NO INVENTORY ITEM 03/05/91 . 0 055 NO INVENTORY ITEM . () 03/05/81 056 NO INVENTORY ITEM . 0 03/05/50 057 NO INVENTORY ITEM . 0 03/05/91 059 ND INVENTORY ITEM 03/05/91 059 NO INVENTORY ITEM . 0 03/05/81 060 NO INVENTORY ITEM . 0 03/05/81 061 NO INVENTORY ITEM . 0 03/05/81 062 NO INVENTORY ITEM 01/20/01 . 0 063 NO INVENTORY ITEM . 0 01/20/03 064 NO INVENTORY ITEM . 0 01729750 065 NO INVENTORY ITEM 01/29/01 066 NO INVENTORY ITEM . 0 01/26/01 067 NO INVENTORY ITEM . 0 01728701 068 NO INVENTORY ITEM . 0 01/28/81 069 MO INVENTORY ITEM 01/29/01 . 0 070 NO INVENTORY ITEM . 0 03/05/31 071 P17013269 IC SSI DESKEW/QUEUE REGISTER . 0 1D, 4D, 7D 01/05/01 072 P22000103 OSC K1114A 7, 2 MHZ . 0 Υı 01/05/01 073 P22000188 OSC KILLIAA LOMUZ 01705791 . 0 Y2 074 P14000251 RES 100 OHM 1/4W 5% RC070F101J R19, R37 . 0 01/05/01 075 RES 180 OHM 1/4W 5% RC070F181J P14000293 R26, R34, R36, 01705781 . Q 075 P14000293 RES 180 DHM 1/4W 5% RC07GF181J 1 COM . 0 R49, R59, R60, 01/05/81 075 P14000293 RES 180 DHM 1/4W 5% RC07@F181J 2 COM . 0 842 01/05/81 076 P14000350 RES 330 DHM 1/4W 5% RC070F331J R14, R15, R20 01/05/80 . 0 . 077 RES 390 DHM 1/4W 5% RC079F391J P14000375 . 0 R35, R37 01705790 078 P14000392 RES 470 OHM 1/4W 5% RC07GF471J . 0 01705780 REL 079 P14000425 RES 680 DHM 174 W RC07GF681J 20 R9-R12-R13, 01/05/81 . 0 RES 680 OHN 1/4 W RC070F681J 079 P14000425 CON \cdot 0 R16, R17, P19, 01/05/81 079 P14000426 RES 680 DHM 174 W RC07GF631J COM . 0 R22, R24, B25, 01705/40 079 P14000426 RES 590 OHM 174 W RC070F691J CON . () R27, R20, B31 - 01/05/B1

RES 580 OHM 174 W RCOVGF581J

RES 490 DHM 174 W RC070F491J

RES 690 DHM 1/4 W RC070F681J

RES 18 DHN 174W 5% RC070F102J

RES 1,5K 1/4M 5% RC07GF15/U

RES 2 4K 174W 5% RC07(#12412.)

RES 2. 7K 174W 5% RC070F272U

RES 4.38 1740 5% RC070F439 F

RES 4.78 174M 5% RC070F473M

RES 6 98 1749 DV RCOZOFASPA

RES 18 OHN 1740 5% RC070F10PJ 1

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RBR, RBB, RBB, 01705781

R40, R41, 842, (0) 705/80

R5, R7, R3, R20 OL/05/R0

R44 1000 1000 01705701

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RAIL RAIL

R1, R2, R4

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A. Bullet

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5 COM

ASSER	88.Y NO. P60000601	REVISION AF	_	AGE DESC:	ASSY TO 131 TA	PE CONTRIBUTER	
SEA	PART NUMBER	DESCRIPTION			HRS SUD ÉXC L		EHI DAH
087	P14000755	RES. 150K 174 W RC070F154J		1	, O	R11	01705701
- 989	P14000B0S	RES. 470K-174 W RC070F474J		- 6	()	R3, R6, R29.	01705/99
098	P14000805	REB. 470K 174 W RC070F474J	1	CON	. 0	R30, R50, R56	01/05/91
083	P14000863	RES. 1 MEG 1/4 W RC07GF105U		1	0	R47	01/05/01
090	P14004311	RESP 10PIN 785-5-R220/330		3	. 0	RN1, RN2, RN3	01705/81
091	P14004485	RESP TOPIN 785-1-RIK		- 2	. 0	RN4, RM5	01/05/91
092	P11000007	DIO IN914A SIGNAL HIGH SPEED		8	`. O	CRI THRU CRO	01/05/91
093	P15000128	CAP 82PF 500V CM05ED820U03		1	. 0	C17	01/05/91
094	P15005127	CAP 150PF CM05ED151J03		1	, ()	018	01/05/31
095	P15005184	CAP 220PF CN05ED221J03		4	* O	012,013,017,	01/05/91
095	P15005184	CAP 220PF CNOSED221JO3	1	CDN	, O	005	01/05/91
096	P15000250	CAP 390PF 500V CM05ED391U03		J	. 0	050	01/05/81
097	P15000631	CAP 4700PF 100V CK05BX472K		1	. O	0.7	01705/91
098	P15000672	CAP 5600PF 100V CK05BX562K		5	. 0	01,06	01/05/81
099	P15000714	CAP 6BOOPE SOV CKOSBX682K		1	, Q	C4	01/05/81
100	P15000490	CAP . 001NF 200V CK05BX102K		4	, O	CD2, C44, C46,	01/05/01
100	P15000490	CAP . QOIME 200V CKOSBX102K	1	CON	, Q	C48	01/05/91
101	P15000763	CAP . 01MF 100V CK05BX103K		1	. O	035	01/05/49
105	P15000805	CAP . 056MF 50V CKQ5BX563K		1	. 0	CS	01/05/81
103	P15000821	CAP . 059MF 50V CK05BX683K		5	. 0	05, 08	01/05/81
104	P15000870	CAP . 082NF 50V CKQ5BX823K		1	. 0	03	01/05/31
105	P15000904	CAP . 1MF 50V CKO5BX104K		6	. 0	C36, C56 THRU	01/05/01
105	P15000904	CAP . IMF 50V CKO5BX104K	1	CON	. 0	0.60	01/05/01
105	P15002348	CAP 4. 7MF 10V 150D475X9010A2		34	. 0	09,010,011,	01/05/81
106	P15002349	CAP 4.7MF 10V 150D475X9010A2	1	CIBN	. 0	014,015,016,	01/05/91
106	P15002348	CAP 4.7MF 10V 150D475X9010A2	2	COM	. 0	C21 THRU CUI	01/05/91
105	P15002348	CAP 4.7MF 10V 150D475X9010A2	3	CON	. O	C33, C34, C37	01/05/81
106	P15002348	CAP 4. 7MF 10V 150D475X9010A2	4	COM	. 0	THRU 043/ 045	01/05/81
106	P15002348	CAP 4. 7MF 10V 150D475X9010A2	5	CON	. O	C47, C49 THRU	01/05/01
106	P15002348	CAP 4. 7MF 10V 150D475X7010A2	6	CON	. 0	054	01/05/81
107	P20000147	SW B PIN DIP 206-4		1	. 0	586	01/05/01
109	P21000042	LED 555-2003[DIALCO]		5	. 0	LED1-LED5	01705791
109	P23007180	CONN IC SKT 8P DILB-9-P-108		15	, O	190,210,	01/28/81
109	P23007180	CONN IC SKT BP DILB-B-P-108	1	COM	. O	190-A/190-B	01/29/81
109	P23007180	CONN IC SKT 8P DILB-8-P-108	2	CON	. 0	210-A, 210-B,	01/28/81
109	P23007180	COMN IC SKT BP DILB-0-P-108	3	CON	. 0	19D-A, 19D-B,	01728781
109	P23007180	CONN IC SKT BP DILD-8-P-108	4	COM	. 0	510-V1510-B1	05/03/81
109	P23007180	CONN IC SKT 8P DILB-8-P-108	5	COM	. 0	17E, 21E	05/03/81
110	P23007198	CONN IC SKT 15P DILB-16-P-108		15	. 0	19B, 21B,	01/56/60
110	P23007198		1	COM	(C)	190-A. 190-8.	
110	P23007193	CONN IC SKT 16P DILB-16-P-109	53	COM	, Q	510-V' 510 B	01786781
110	P23007198	COMN IC SKT 16P DILB-16-1-108	3	CEM	. Ü	17D -A. 17D- 0.	
110	P23007198		43	0.094	()	510-97 510 0°	02700750
110	P23007198		7	COM.	0	DE GHE	05703701
111	P23000383	CONN IC SKT 28P IEW3700-288W		1	O	EPC .	047007004
112	P26002733	W/W POST STRIP, BERG 55500-104		20	0	EX THRU 175	
113	P03300175-01	SPEC CARD PULL HOD WHI		Ç.	()		01/05/10
111	P42000133	EYELFT, SE-47 BEAGS	•	6	()		Q17(P7/Q)
115	P76000520-B	PWB TC131 TAPE CONTROLLER		1	. 73		04724750
116	P75000539	SCH TOTAL TAPE CONTROLLER		141-1	()		01707701
117	P17003666	TO 74LSP40 DOTAL BUFFLER S OF			()		01705774
J18	P18001313	PRST PROMISEL TO 154		141	<u> </u>		01 /(P. ////

PAGE 3

04/22/81 BILL OF MATERIAL TOP LEVEL ASSEMBLY LIST

04/22/81 BILL OF NATERIAL TOP LEVEL ASSENDLY LIST REVISION OF DESC: PAGE ASGY TO 131 TAFE CONTROLLER

SEG PART NUMBER DESCRIPTION CON GTY DESCRIPTION FEED AGE
119 P19001321 PRST, 10131/151, PE REF 1.0 03/05/03

western peripherals TM		ENGINEERING REQUEST/O		SHEET) CANCELLED BY E.C.O. N	0F 1	E.C.O		04	REV		
CHANGE CHAIRMAN PRODUCT ENG'R	7 28-91 D	E TYPE ESIGN IMPROVEMENT N-LINE ANDATORY	DISPOSITION NO AFF USE AS SCRAP	<u>II</u> ECT		31	OLD REV	NEW REV	DATÉ INCORP		
MFG. () Killard	4/28 - RI	ECORD ONLY	☐ REWORK Ø RETROF	IT AS REQ'D		0000601	G	H			
MKTG. Sangette	4-28 - N	ON-INTERCHANGEABLE -WAY INTERCHANGEAB	LE		·	000692	F	(J			
SUPPORT ALC AIR	7-27 D PI	-WAY INTERCHANGEAB ROD. IMPROV. BULLE FG. WORK SHEET ON	TIN REQ'D		PWM (ARTWORK) ⁷ PWB	6000520	В	TBD			
ORIGINATOR MGR RANDERSON	EFFECT	FIVITY (DATE OR IS	T SERIAL NO.)	(FAB) 70	6000520	B	T&P			
ROGER ANDERSON	4-23-81	RIAL NO.330	ò								
REASON FOR CHANGE (USE ATTACHM SYMPTOM: FIELD SELECT PROBLEM: INDIVIDUAL W WHICH NOW	ION JUMP	POSTS WERE		ED BY WIR		POST S	TRI	 P S			
SOLUTION: RELOCATE	HESE JUN	OPERS TO THE	SOLDER	SIDE OF	THE BO	ONRD					
DETAILED DESCRIPTION OF CHANGE TO AFFECTED DOCUMENTS AND/OR PARTS (USE CONTINUATION SHTS, IF REQ'D, TO SHOW REWORK, SCHENATIC CHANGES, ASSY CHANGES, B/H CHANGES, ETC.) ON PWM. 7600 0520 - MOVE THE FOLLOWING ETCH JUMPERS FROM THE COMPONENT SIDE TO THE SOLDER SIDE OF THE BOARD: EVA CHANGES REV A CHANGE REV A CHANGE REV A CHANGE REV A CHANGE REV A C											
ON PWG. 76000520 - CUT THE ETCH JUMPERS LISTED ABOVE BEFORE INSTALLING COMPONENTS. REPLACE WITH WIRE-WRAP JUMPERS.											
ON ASSY GOOD	(REWORK UNTIL NEW BOARDS ARE AVAILABLE.) ON ASSY GOODGOI & GOODGOS UPGRADE REV LTR TO REFLECT THE CHANGE ON THIS ECO										

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映	western peripherals ™		ENGINEERING REQUEST/O	1	SHEET \ CANCELLED BY E.C.O. N	0F 1	E.C.O	_	7/5	REV	
APPROVAL	CHANGE CHAIRMAN Paly Skuling PRODUCT ENG'IN MFB Skiller k Q.C. Oudy Culture MKTG.	DATE 5-5-81 5-5-81 5-5-81	DESIGN IMPROVEMENT IN-LINE MANDATORY RECORD ONLY	USE AS SCRAP REWORK RETROF	N ECT IS	DRAWINGS TC131 Assy GOO BIM GOO ASSY	AFFECTED /131N 00601 00601	OLD REV	9 0 L	DATE	
_	TECH SUPPORT T. MAC OFFICE MGR	5/5	2-WAY INTERCHANGEABI PROD. IMPROV. BULLET MFG. WORK SHEET ON I	TIN REQ'D FILE)	6000	0692	E	F		
DRAWN B.	Micheleron	5·4 -81	ALL UNITS NOT IN OF 5-6-81	Finished	Goods As						
SY		15 1	NOT 100% COM								
	TO READ (2000 2000	ENCY WILL NOT	ta musi	THE CO	PRIZECT	SPEE	>			
SO	LUTION: REPLACE TH	16	RESISTORS 3	-OCATION	JS RZ9 :	1 120 TO	o corre	CT	SF?	CED	
			FECTED DOCUMENTS AND/OR PA	SCHEMAT	TIC CHANGES.	ASSY CHANG	SES. B/M CHA	ANGES	. ETC	.)	
1) ON ASSY & B/M GOOODGOI ITEM 88 - QTY 15 G S/B 4 - DELETE LOCATIONS 723:20 ITEM 78 - QTY 15 1 S/B 3 - ADD LOCATIONS 723:20) 4 20	
	2) ON ASEY & B/M 60000692 ITEM 69 - P/N IS P14000806 S/B P14000392 (CC. 11) 1 6-81 NFG MAGNETICAL MATERIAL OF THE MATERIAL O										

r#	western peripherals ***		ENGINEERING REQUEST/O		SHEET \ CANCELLED BY E.C.O. N	0F 1	E.C.O.	_	72	REV B
APPROVAL	CHANGE CHAIRMAN PRODUCT ENG'R MIG. Sellis Sellis Q.C. Cull Rulling MKTG. D. H. S. TECH SUPPORT RUSC ANTIC	5/12/ DX	DESIGN IMPROVEMENT IN-LINE MANDATORY RECORD ONLY NON-INTERCHANGEABLE I-WAY INTERCHANGEAE PROD. IMPROV. BULLE MFG. WORK SHEET ON	LE TIN REQ'D	ECT IS	DIRAVINGS TC13 ASEY GOOC B/M		OLD REV	NEW REV	INCORP
ORIGI										
DRAWN	SREDVIG MIDDLETON	5-11	ECTIVITY (DATE OR IS ALL UNITS TROFIT AS	, IN HÇ	OUSE/)				
E X	N FOR CHANGE (USE ATTACHM MPTOM: CESSIVE RE. TZE OBLEM:		•	WITH C	ERTAIN	J DRIVE	ES -1.E	Ξ. Ο	_117	HER
	H NOISE LEVELS	S ON TH	IE READ SIG	NALS TO	THE 7	4L586	1.6.5	TA	20,	36,40
SEI	LUTION: LECT 74LS86 I	.C.'S WI	TH THRESHOLD	LEVELS	ONTHE	HIGH E	END OF N	1FGI	z's	SPEC.
DETAIL ()	PRE-TEST 74 THOSE PAIZTS NEW PIN-P ON ASSY 2 B ITEM 15 15	LS86 S THA 17001 JM — P17	1.6.5° TO T T PASS M 777 1001769 (MF	SCHEMA HE HIGH UST BE PER CHA FEETIVITA GALLER GALL	TIC CHANGES, H THIZ	ASSY CHANGES HOLD	DERECT	UDL TT-	TS TS	S

rp western peripherals ***	ENGINEERING REQUEST/0	BOCB CANCELLED		C.O. 9-	24 REV
CHANGE CHANGE CHAIRMAN PRODUCT ENG'R Q.C. MKTG. O CHANGE DATE S/2/8 PRODUCT ENG'R MEG A MEG MKTG. O MKTG. O MKTG. O MKTG. DATE S/2/8 DATE DATE S/2/8 DATE S/2/8 DATE DATE S/2/8 DATE DATE S/2/8 DATE DATE S/2/8 DATE S/2/8 DATE DATE S/2/8 DATE DATE S/2/8 DATE DATE S/2/8 DATE DATE DATE DATE DATE S/2/8 DATE DATE DATE DATE	DESIGN IMPROVEMENT IN-LINE MANDATORY RECORD ONLY		DRAWINGS AFFE TC 131 ASSY COCCO BIM COCCOC	CTED OLD REV	NEW DATE REV INCORP 11
TECH SUPPORT MAC MUN 5-1 ORIGINATOR MGR R. SHEFFER	2 D 2-WAY INTERCHANGEAB D PROD. IMPROV. BULLE	LE TIN REQ'D FILE			
DRAWN BY GIARY WOOD 5.8.8	NO EFFEC	T (R/C ONLY)			
REASON FOR CHANGE (USE ATTACHMENTS SYMPTOM: PULLING INCORRE				•	
PROBLEM: B/M CALLS OUT PAW PROBLEM: SOLUTION:	OMS ON PROM WHIC	H ARE STOCKED	AS BLOWN	PROMS.	
COPPECT BYM TO SHOW	P/N OF BLOWN PE	20M5,			
DETAILED DESCRIPTION OF CHANGE TO A	FECTED DOCUMENTS AND/OR PA	ARTS (USE CONTINUATION S SCHEMATIC CHANGES,			
1.) ITEM 48: 5/27 27 13	<u>3</u>				
2.) ADD ITEM 50:	RTY. PART NO. 9 P1701383	LOCATION 7 1F-9F			
			In	L 16 1981	

m)(western peripherals ***		ENGINEERING REQUEST/O	11 = 7 (15 5 4 5 7 7 7		E.C.O		930) RIV
APPROVAL	PRODUCT SUBJECT SENG'R FOR SUBJECT SENGUER SEN	5-15-81 5 5-15-81 5 5-15-81 5 5-15-81 5 5-15-81 5	IIANGE TYPE DESIGN IMPROVEMENT M-LINE MANDATORY RECORD ONLY MON-INTERCHANGEABLE	DISPOSITION NO AFFECT USE AS IS SCRAP REWORK RETROFIT AS REQ'D	DILAVINGS TC131 ASSY GOOD BIM	0601	•	REV V	DATE
ORIGII	TECH S. MAC CULITA S	5-15	LE FILE						
DRAWN		EF	FFECTIVITY (DATE OR IST						
REASON SYI	MIDDLETON I FOR CHANGE (USE ATTACIMEN IPTOM:		ECESSARY)						
PRO	MARGANAL 74L					7 1212	K01		
	INSTALL AN 1.	.c. e	SOCKET AT L	OCATION 5A					
DETAIL	ED DESCRIPTION OF CHANGE TO	O AFFECT	ED DOCUMENTS AND/OR PA	ARTS (USE CONTINUATION SI SCHEMATIC CHANGES,)
	1) ON ASSY GOODGOI								
A) INSTALL SOCKET, 14 PIN (P23007008) AT LOCATION 5A									
	2) ON B/M 60					JUL	161	981	
	A) ADD ITEM 120, 1-C. SOCKET 14 PIN, LOCATION 5A, P23007008								
	B) ON ASSY DWG, ADD CALLOUT FOR ITEM 120 AT LOCATION 5A								

•

	CONNECTOR A		CONNECTOR B		CONNECTOR C		CONNEC	CTOR D	CONNE	CTOR E	CONNECTOR F		
	1	2	1	2	1	2	1	2	1	2	1	2	
												TO 38 4 19 30 TO TO THE STATE OF THE STATE O	
A					NPGHI-4	+5V-0		+5V-0		+5V-0		+5V-0	
В					NPGHO-4								
С		GND-0		GND-0		GND-0		GND-0	λ121-1	GND-0		GND-0	
D			and the second	To Contract the Last case of Civilian place of the party of		D15L-1	* 1	BR7L-2	A1712	A15L-1	BBSYL-3		
E						D14L-1		BR6L-2	MSYNL - 3	λ16L-2			
F						D13L-1		BR5L-2	V051'-J	C1L-2			
Н			A CONTRACTOR OF THE PROPERTY O	and the second s	DllL-l	D12L-1	1	BR4L-2	V011'-1	VOOF-1		* *** · · · · · · · · · · · · · · · ·	
J					1	D10L-1			SSYNI3	COL-2	NPRL-4		
ĸ		INDICATES	SCHEMATIC PA	GE NUMBER ——		D09L-1		BG7H1-2	A141,-1	V13r-1			
I.	s	CHEMATIC	× · · ×	T TO THE PROPERTY IS NOT THE PARTY.		D081-1	INITL-4	вс7но-2	V11r-1				
М	c	ONNECTOR				D07L-1		BG6H1-2			INITRL-4		
N	DE	SIGNATIONS:			DCLOL-4	D04L-1		BG6110-2		V08P-1			
P	A T	I				D0511		BG5HI-2	λ10L-1	Λ07L-1			
R						D01L-1		BG5110-2	M09L-1				
S			JETT.			D00L-1		BG4HI-2					
т	GND-0		GND-0	1,40	GND-0	D03F-J	GND-0	BG4HO-2	GND-0		GND-0	SACKL-	
U						D02L-1			V061'-1	Λ041-1			
V				*		D0611			A05L-1	A03L-1			
			3										

^{1 =} Component Side

TC-131 BUS CONNECTIONS

2 = Solder Side

APPENDIX A

STANDARD TAPE DRIVE CABLES AND ADAPTERS

TABLE OF CONTENTS

TITLE	DRAWING NO.
Modification Drawing, Tape Control Adapter (Config. "S")	112001
Assembly - Cable, Control	121004
Assembly - Cable, Read	121006
Assembly - Cable, Write	121014
Assembly Drawing - Adapter, Tape Read Connector	122005
Assembly Drawing - Tape Write Connector	122006
Assembly, Jumper Array, Select Switch Option	122010
Assembly, Jumper Array, Select Switch Option, Special	122011
Assembly, Jumper Array, Non-Select Switch Option	122012
Assembly Drawing - Adapter, Tape Read, Kennedy, Cipher	122018
Assembly Drawing - Adapter, Tape Write, Kennedy, Cipher	122019
Schematic - Adapter, Tape Write Connector	122021
Schematic - Adapter, Tape Read Connector	122022
Assembly, Adapter, Tape Write, Kennedy 9300	122034
Assembly, Adapter, Tape Read, Kennedy 9800	122035
Schematic - Tape Control Adapter	122036
Assembly - Adapter, Tape Control Connector	122037
Assembly - Adapter, Tape Control Connector, 90° Mounting	122038
Assembly - Adapter, Tape Control Connector, 2-inch Standoff	122039
Assembly - Adapter, Tape Read, Reverse Image, 900	122043
Modification Drawing, Tape Control Adapter (Config. "N")	122044

FUNCTIONAL INDEX

		FUNCTIONAL INDEX	
I.	RIE	BBON CABLES AND BACKPLANE CONNECTORS	DRAWING NO.
	Ass	embly - Cable, Control	121004
	Ass	embly - Cable, Read	121006
	Ass	embly - Cable, Write	121014
II.		APTER PADDLEBOARDS	
1.	SCH	IEMATICS	
	Sche	ematic - Tape Control Adapter	122036
	Sche	ematic - Adapter, Tape Write Connector	122021
	Sche	ematic - Adapter, Tape Read Connector	122022
2.	ASS	EMBLY DRAWINGS .	•
	a.	CONTROL	
		Assembly - Adapter, Tape Control Connector (Standard)	122037
		Assembly - Adapter, Tape Control Connector (90° Mount)	122038
		Assembly - Adapter, Tape Control Connector (2-inch Standoff)	122039
	5.	WRITE	
		Assembly Drawing - Tape Write Connector (Standard)	122006
		Assembly Drawing - Adapter, Tape Writer (Reverse Image)	122019
		Assembly - Adapter, Tape Write (90 ⁰ Mount)	122034
	C.	READ	
		Assembly Drawing - Adapter, Tape Read Connector	122005
		Assembly Drawing - Adapter, Tape Read (Reverse Image)	122018
		Assembly - Adapter, Tape Read (90° Mount)	122035
		Assembly - Adapter, Tape Read (Reverse Image 90 ⁰ Mount)	122043
	d.	DRIVE SELECT JUMPERS	
		Assembly, Jumper Array, Select Switch Option	122010
		Assembly, Jumper Array, Select Switch Option (4th Drive)	122011
		Assembly, Jumper Array, Non-Select Switch Option	122012
III.	SPE	ECIAL FEATURE MODIFICATIONS	
		dification Drawing, Tape Control Adapter Configuration "S"	112001
	Mo	dification Drawing - Tape Control Adapter Configuration "N"	122044

MANUAL SUPPLEMENTS

MANUAL NO. APPENDIX A STD TAPE DRIVE PRESENT REVISION

l .			
DATE	SUPPL. NO.	CHANGE DESCRIPTION	AUTH.
11-26-80	. •	79000410 ADDED	ER
1.7-81		79000642 ADDED	
4-3-81		62000427 Added	ER
5-12-81		79000402 ANDED	9R

PURPOSE:

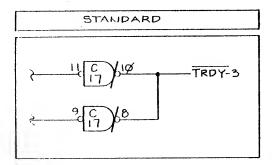
THIS MODIFICATION REQUIRED FOR CONTROL OF QUANTEX TAPE DRIVES.

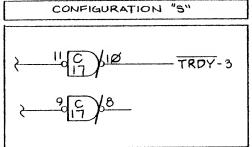
REVISIONS

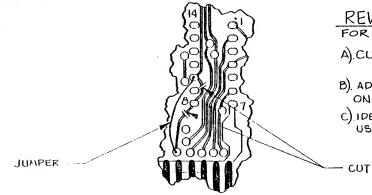
LIR DESCRIPTION DATE APPROVED

REDRAWN TO CORRECT DETAIL
FOR E OR F ARTWORK (REF ECQ 180) 10-2-80

SHEET (2) OF SCHEMATIC 122036 IS ALTERED AS OUTLINED BELOW.







SOLDER SIDE VIEW

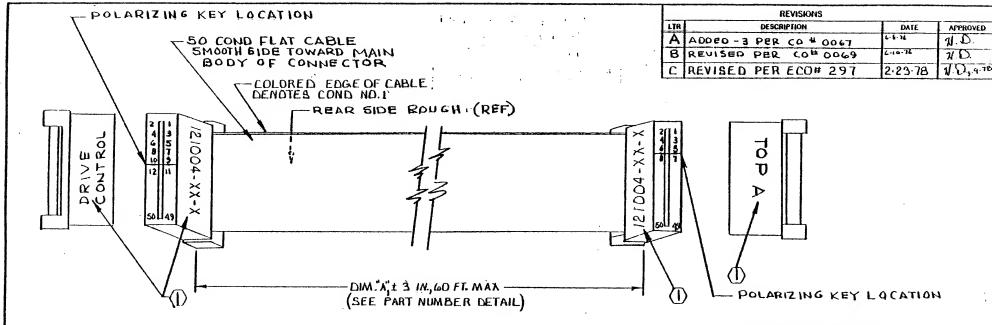
IC LOCATION "C"

REWORK INSTRUCTIONS: FOR ASSY 122037, 122038, 122039

- A). CUT ETCH 2 PLCS AT C-8 (SOLDER SIDE)
- B). ADD JUMPER FROM C-10 TO FEED-THRU ON ETCH THAT WAS CONNECTED TO C-8
- C) IDENTIFY AT ASSY NO. WITH "CONF 5" USING BLACK INK.

OCT 2 1980

TOLFRANCES UN OTHERWISE SPEI FRACTIONS DEC	CIFIED	■ we	stern p	eripheral:	TM STIN, CALIFORNIA
# # # APPROVALS DATE DRAWN \(\sum_{D} \) \(\sum_{D} - 1 - 80 \)		MODIFIC TAPE CO	CAT NT. A	ION NDAPTE	DWG- R,CONF"5"
CHECKED LECK	10-2-80	SCALE	B	DRAWING N	
		DO NOT SCALE DRAWING			SHEET LOF I



NOTES.

- (I) MARK CHARACTERS SHOWN USING CONTRASTING COLOR INK.
 SEE PART NUMBER DETAIL FOR MARKING OF VARIABLE CHARACTERS (X's).
- 2. ASSEMBLY:

USE 3M PRESS NO. 3440
USE LOCATOR PLATE NO. 3443-II
USE SETTING NO 9 OF GUAGE 3436-I
CUT CABLE USING SCOTCHFLEX CABLE SHEAR OR EQUIV.
SEAT CABLE INTO COVER USING SCOTCHFLEX TOOL
NO. 3453, CHECK FOR ALIGNMENT
PLACE BODY ON LOCATOR PLATE
POSITION COVER AND CABLE OVER CONN BODY
LOWER HANDLE TO COMPLETE ASSY
REMOVE BY LIFTING ON CONNECTOR

PART NUMBER DETAIL

BASIC PART NUMBER

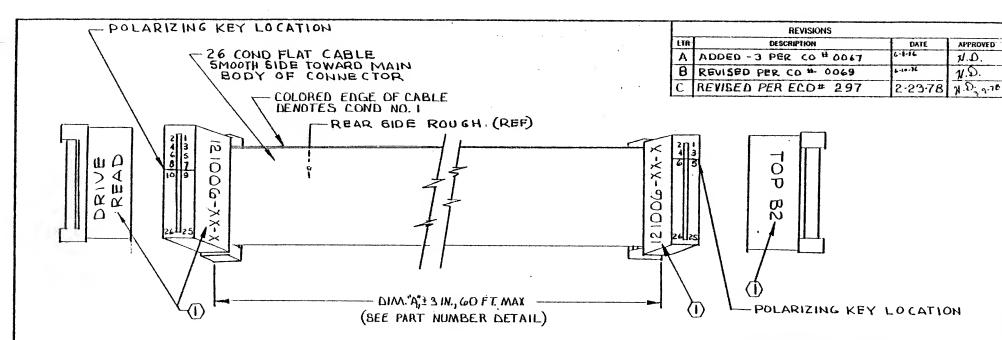
DASH NUMBER IN FEET (REF. DIM.'A')

(-07 FOR 7 FT., -10 FOR 10 FT, ETC.)

LATEST REVISION LETTER

FOR PARTS SEE PARTS LIST 121004

IOLERANCES UNI OTHERWISE SPEC FRACTIONS DEC	IFIED . ANGLES	# () #	ssiera ;	oripberali	B HEIM, CALIFORNIA
# #	±	^	c c	ELAD	. V _
APPROVALS	DATE	A S S EMBLY-			
CORUPA	6-1-76	CAB	LE.	, LOI	NTROL
CHECKED D.	6-1-76	SCALE		DRAWING N	
		HONE	B	121	004
		DO NOT SCALE DRAWING			SHEET



NOTES:

- (I) MARK CHARACTERS SHOWN USING CONTRASTING COLOR INK. SEE PART NUMBER DETAIL FOR MARKING OF VARIABLE CHARACTERS (X'S).
- 2. ASSEMBLY:

USE 3M PRESS NO 3440

USE LOCATOR PLATE NO.3443-11

USE SETTING NO.9 OF GUAGE NO. 3436-1

CUT CABLE USING SCOTCHFLEX CABLE SHEAR OR EQUIV.

GEAT CABLE INTO COVER USING SCOTCHFLEX TOOL NO

3453, CHECK FOR ALIGNMENT

PLACE BODY ON LOCATOR PLATE

POSITION COVER AND CABLE OVER CONN BODY

LOWER HANDLE TO COMPLETE ASSY

REMOVE BY LIFTING ON CONNECTOR

PART NUMBER DETAIL

BASIC PART NUMBER

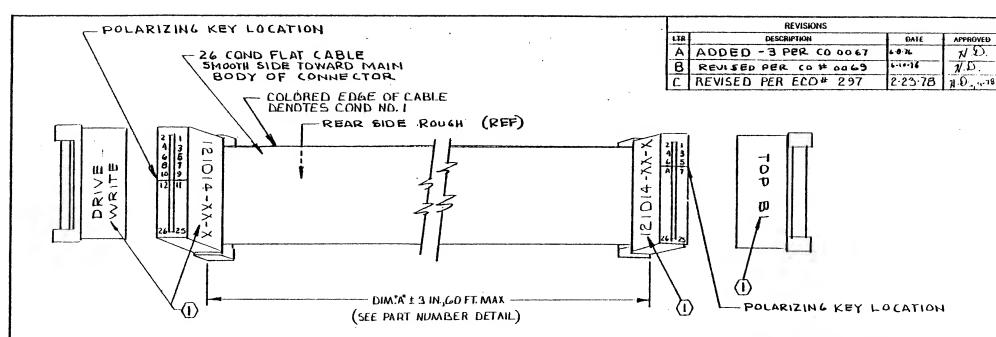
DASH NUMBER IN FEET (REF. DIM.'A")

(-O7 FOR 7 FT., -IO FOR 10 FT., ETC.)

LATEST REVISION LETTER

FOR PARTS SEE PARTS LIST 121006

TOLERANCES UNI OTHERWISE SPEC FRACTIONS DEC	CIFIED	P W	stern p	eriphorals	
APPROVALS	DATE	ASS CABI		1BLY	
CORUM CHECKED).	6-1-76	NONE		DRAWING H	
		DO NOT SC	ALE DR.	AWING	SHEET



NOTE 5:

- MARK CHARACTERS SHOWN USING CONTRASTING COLOR INK.
 SEE PART NUMBER DETAIL FOR MARKING OF VARIABLE CHARACTERS (X'S).
- 2. ASSEMBLY:

USE 3M PRESS NO. 3440.

USE LOCATOR PLATE NO 3443-11

USE SETTING NO 9 OF GUAGE 3436-1

CUT CABLE USING SCOTCHFLEX CABLE SHEAR OR EQUIV.

SEAT CABLE INTO COYER USING SCOTCHFLEX

TOOL NO 3453, CHECK FOR ALLGNMENT

PLACE BODY ON LOCATOR PLATE

POSITION COYER AND CABLE OVER CONN BODY

LOWER HANDLE TO COMPLETE ASSY

REMOVE BY LIFTING ON CONNECTOR

PART NUMBER DETAIL

BASIC PART NUMBER

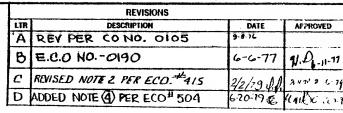
DASH NUMBER IN FEET (REF. DIM."A")

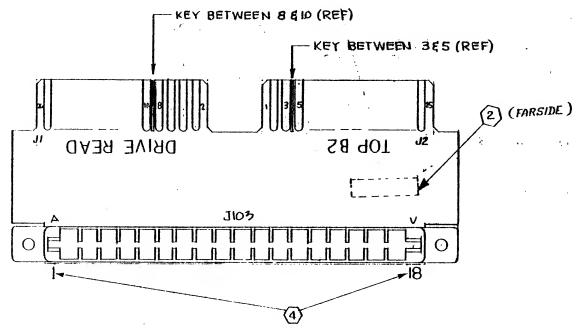
(-07 FOR 7 FT., -10 FOR 10 FT., ETC.)

LATEST REVISION LETTER

FOR PARTS SEE PARTS LIST 121014

TOLERANCES UNI OTHERWISE SPEC FRACTIONS DEC	IFIED . ANGLES	→ wo	stern p	eriphorals	HELM, CALIFORNIA
APPROVALS DATE		i e	-	EMBI	
BRAWN この兄いい	6-1-76	CABLE, WRITE			
CHECKED D.	6-1-76	NONE		121	
		DO NOT SC	ALE DR	AWING	SHEET





HOTE.

- I. REF SCHEMATIC DWG NO. 122022
- (Z) RUFBER STAMP RSSY NO. WITH INTEST REV. LTR.
 AFTROX WHELE SHOWN LIBING BLK INK.
- 3. FOR MATL SEE PIL 122005
- (1) MARK CHAPACTERS SHOWN (1618) ON SIDE OF CONNECTOR USING CONTRASTING INK.

TOLERANCES UNLESS
OTHERWISE SPECIFED
FRACTIONS DEC. ANGLES

± ± ±

APPROVALS DATE

FRACTIONS DEC. ANGLES

ANAHEM, CALIFORNIA

ASSEMBLY DWG.

ADAPTER, TAPE READ

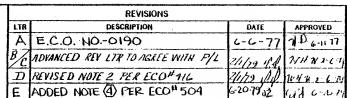
CONVECTOR

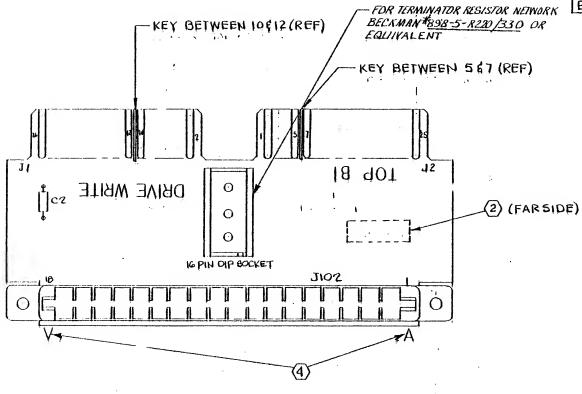
CHECKEL 2-25-76

CHECKEL 2-25-76

DO NOT SCALE DRAWING SHEET OF

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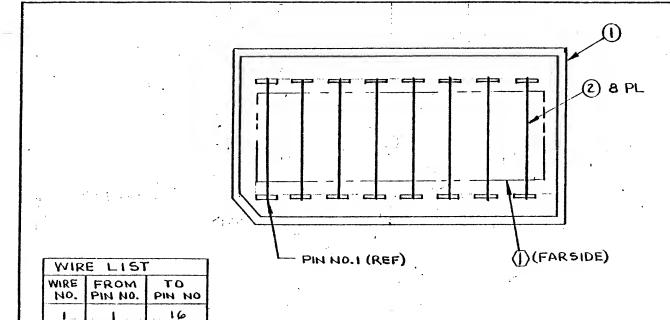


NOTE:

- 1. REF SCHEMATIC DWG. NO. 122021.
- (2) KUBBER STAMP ASSY NO. WITH LATEST KEY LTR APPROX.WHERE SHOWN HISING BLK INK.
- 3. FOR MATL SEE PIL 122006 (4) MARK CHARACTERS SHOWN (AGV) ON SIDE OF CONNECTOR USING CONTRASTING INK.

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TOLERANCES UNI OTHERWISE SPEC FRACTIONS DEC	IFIED	Western peripherals ANAHEM, CALIFORNIA			
± ±	±	ASS	EMB	LY DW	Ģ.
APPROVALS	DATE	ADAPTER, TAPE WRITE			
DRAWN HRB	2-12-76	1 000 11 12 02000			
CHECKER	2-25-76	SCALE	SIZE	DRAWING NO	
W ==		2:1	В	122	006
		DO NOT SCALE DRAWING			SHEET OF !



)	REVISIONS		
LTR	DESCRIPTION	DATE	APPROVED

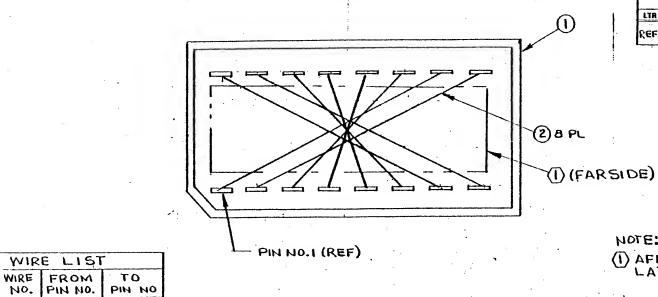
NOTE: UNLESS OTHERWISE SPECIFIED

(I) AFFIX ADHESIVE LABEL WITH PART NO. & LATEST REV LTR WHERE SHOWN

BILL OF MATERIALS

b	TEM	NO REQD	PART NO.	DESCRIPTION	REMARKS
	1	. 1	CA-16P-12		CIRCUIT ASSY.
	2	A/R		WIRE, INSULATED, #30 ANG SOLID	WIRE WRAP WIRE

TOLERANCES UNI DIHERWISE SPEC FRACTIONS DEC	CIFIED	₩e	stera p	aripherais	HEIM, CALIFORNIA
± ±	±	ASSY, JI	JMP	EK AR	RAY,
APPROVALS	DATE	SELECT SWITCH OPTION			
CORUM	11-18-76		•		
A.O.	11-18-76	NONE		122C	
		DO NOT SCALE DRAWING			SHEET OF



1	REVISIONS .							
LTR	DESCRIPTION	DATE	APPROVED					
REF	REC. CHG: AOO FARSIDE TO (1) (ALL PARTS MADE CONFORM)							

HOTE: UNLESS OTHERWISE SPECIFIED

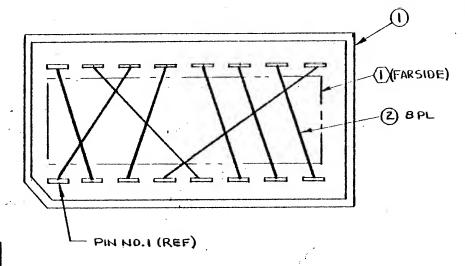
(I) AFFIX ADHESIVE LABEL WITH PART NO. & LATEST REV LTR WHERE SHOWN

PIN NO 1.4

BILL OF MATERIALS

ITEM	NO. REQD	PART NO.	DESCRIPTION	REMARKS
1	1	CA-16P-12		CIRCUIT ASSY OR EQUIV
2	A/R		WIRE, INSULATED, #30 ANG SOLID	WIRE WRAP

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± ±		*	estern j	eripheral	S MIEIM, GALIFORNIA
		ASSY, J	UMP	ER A	RRAY,
APPROVALS	DATE	SELEC	T SV	VITCI	H OPTION,
CORUPA	11-18-74	SPECI	AL (414 TI	H OPTION, RANSPORT)
y.D.	11-18-76		SIZE	122011	
	127	DO NOT SCALE DRAWING			SHEET OF



NOTE: UNLESS OTHERWISE SPECIFIED

(1) AFFIX ADHESIVE LABEL WITH PARTHO.

(1) LATEST REV LTR WHERE SHOWN

REVISIONS

APPROVED

DATE

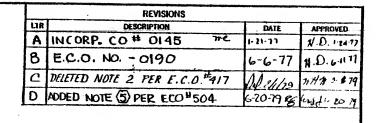
FROM OT NO. PIN NO. PIN NO 14 2 2 16 3 13 3 9 4 4 5 5 15 6 6 12 7 11 8 8 10

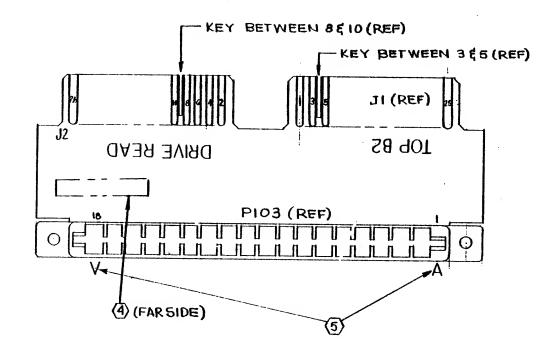
WIRE LIST

BILL OF MATERIALS

ITEM	NO. REQD	PART NO.	DESCRIPTION	REMARKS
1	1	CA-16P-12	DIP PLUG, 16-PIN	CIRCUIT ASSY OR FQUIV
2	A/R		WIRE, INSULATED, #30 ANG SOLID	WIRE WRAP WIRE

TOLERANCES UNLESS western peripherals
ANAHEM, CALIFORNIA OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES * ASSY, JUMPER ARRAY, MIE NON-SELECT SWITCH OPTION APPROVALS DRAWN (ORUM 11-18-16 CHECKED D. SIZE DRAWING NO. SCALE 11-12-76 122012 HONE SHEET LOFT DO NOT SCALE DRAWING





NOTE: UNLESS OTHERWISE SPECIFIED

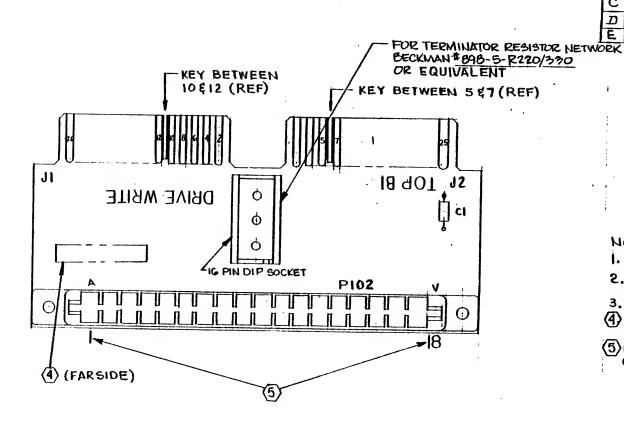
1. REF SCHEMATIC DWG NO. 122022

2.

- 3. FOR MATERIAL SEE PL 122018
- RUBBER STAMP ASSY NO. WITH LATEST REV LTR APPROX WHERE SHOWN USING BLK INK.
- (5) WARK CHARACTERS SHOWN (A&V) ON SIDE OF CONNECTOR USING CONTRASTING INK.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± ±		westers periphersis				
		ASSEMBLY DWG.				
APPROVALS DRAWN HRB	2-13-76	ADAPTER, TAPE READ KENNEDY CIPHER				
CHECKE	2-15-76	2:1 B 122018				
	· 	DO NOT SCALE DRAWING SHEET 1 OF				

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REVISIONS

LIR DESCRIPTION DATE APPROVED

A INCORPORATE CO # 0146 # 1-21-11 #D. 1-24-77

B INCORP. ECO 172 5/11/27 #D. 5-11-77

C INCORP. ECO. NO. - 0190 6-6-77 #.D. 5-11-71

D DELETED NOTE 2 ECOLUDITATECO 418

E ADDED NOTE 5 PER ECO # 504 6-20-79 & Confid to 25

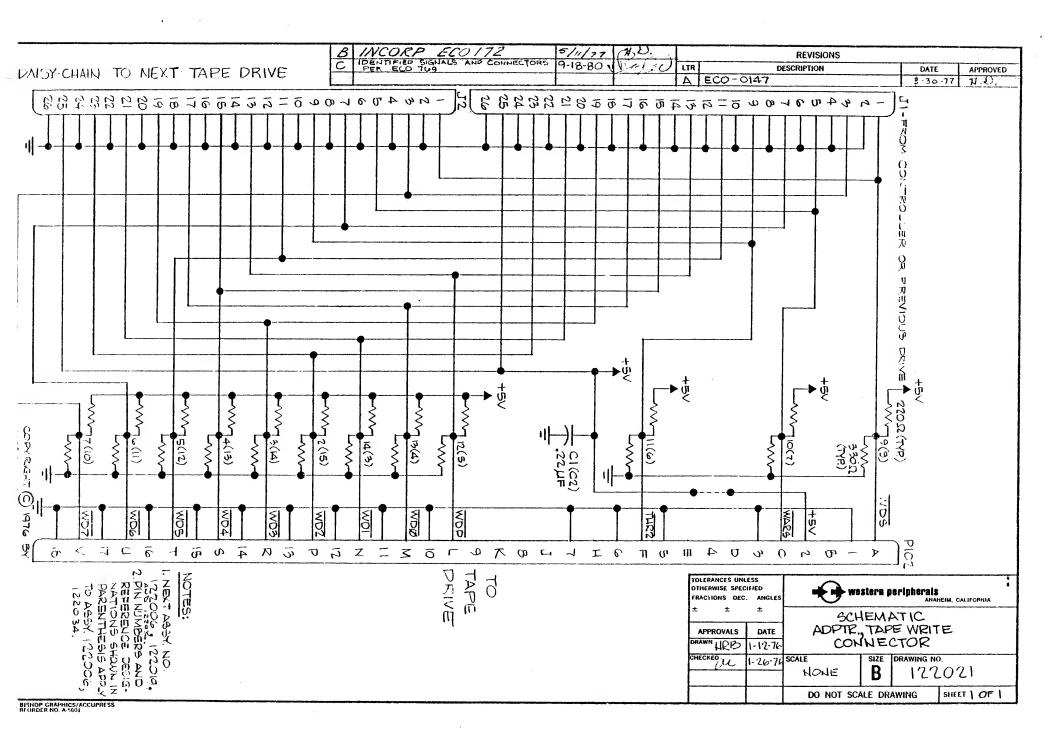
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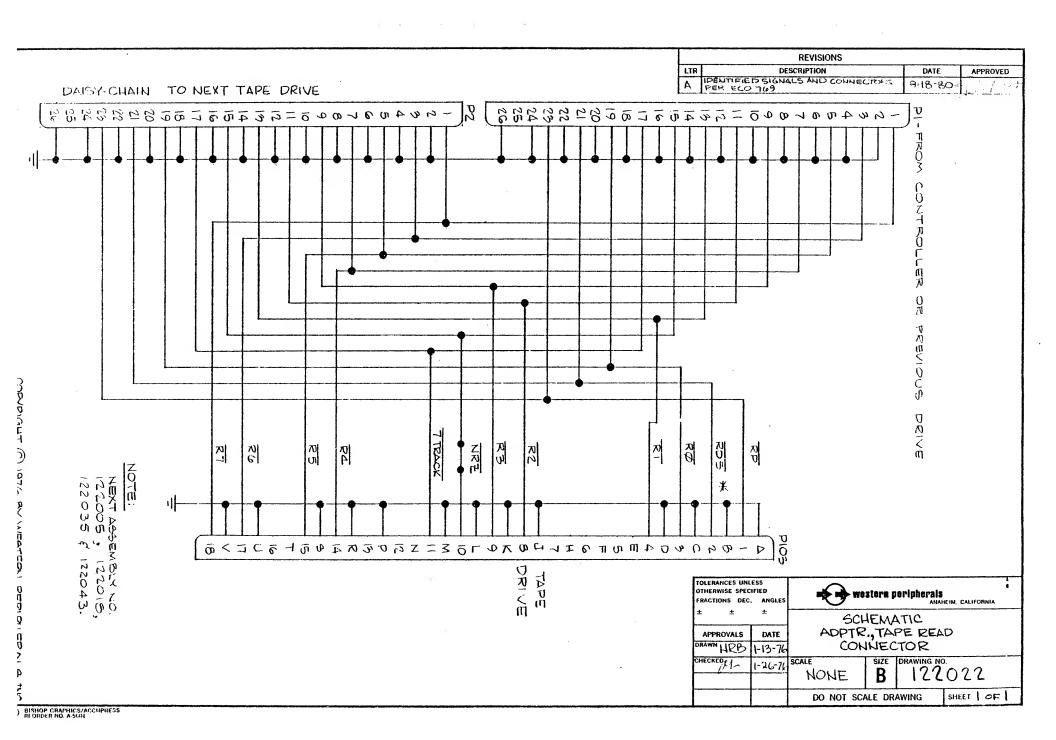
NOTE: UNLESS OTHERWISE SPECIFIED I. REF SCHEMATIC DWG NO. 122021 2.

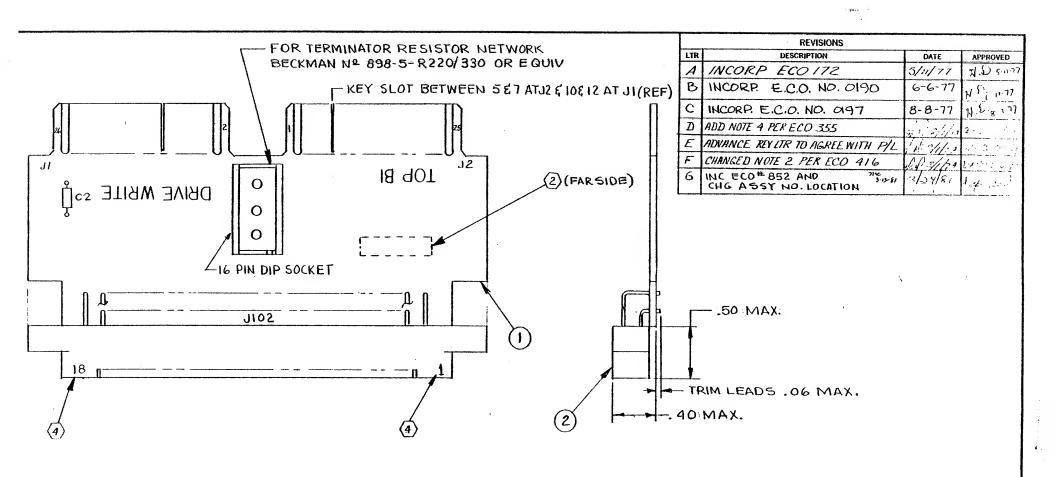
- 3. FOR MATERIAL SEE PL 122019
- (4) RUBBER STAMP ASSY NO. WITH LATEST REV LTR APPROX WHERE SHOWN
- (5) MARK CHARACTERS (1618) ON SIDE OF CONNECTOR USING CONTRASTING INK.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES		viestera peripherals ANAMEM, CALIFORNIA				
± ±	±	ASSEMBLY DWG.				
APPROVALS	DATE	ADAPTER, TAPE WRITE				
DRAWN HRB	2-12-76	ADAPTER, TAPE WRITE KENNEDY-CIPHER				
CHECKED	2-25-76	3CALE 2:1	SIZE	DRAWING N) .	
		2.1	B	127	2019)
		DO NOT SCALE DRAWING			BHEET	of

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MAR 27 1981

(4) RUBBER STAMP CHARACTERS SHOWN USING WHITE INK.

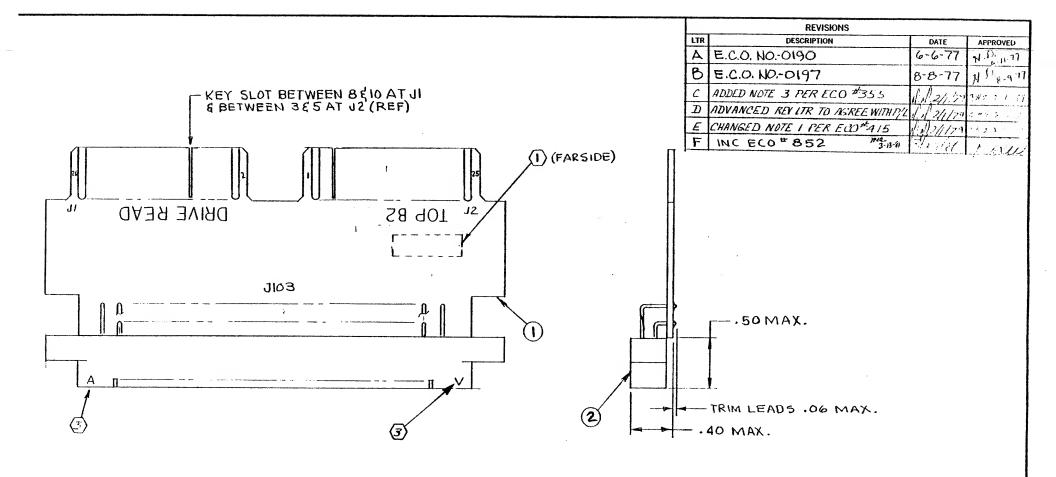
3 . FOR MATERIAL LIST SEE P/L 122034.

(2) RUBBER STAMP ASSY NO. & LATEST REVLIR APPROX WHERE SHOWN USING PLK INK.

1 . REF. SCHEMATIC DWG NO. 122021.

NOTE : UNLESS OTHERWISE SPECIFIED.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± ±		western peripherals ANAHEIM, CALIFORNIA				
		ASSEMBLY- ADAPTER				
APPROVALS	DATE	TAPE WRITE				
DRAWN CORUM	6-11-74	KENNEDY 9800				
CHECKED		SCALE	SIZE DRAWING NO.		D.	
		2x B 122034				
1		DO NOT SCALE DRAWING		SHEET OF 1		



MAR 27 1981

(3) NUEBER STAMP CHARACTERS SHOWN USING WHITE ZNK.

2 . RIF SCHEMATIC DWG MO. 122022.

(1) FUBBER STAMP ARRY NO. I LATE ST SEVETH APPROX WHEKE SHOWN USING BLK INK.

NOTE : UNLESS OTHERWISE SPECIFIED.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES		western peripherals AMAHEIM, CALIFORNIA			
± ± ±		ASSEMBLY-ADAPTER			
APPROVALS	DATE	TAPE READ			
CORUNA	6-11-76	KENNEDY 9800			
CHECKED		SCALE SIZE DRAWING NO.).
Me		2 x B 122035			
		DO NOT SCALE DRAWING SI			SHEET OF I

B BISHOP GRAPHICS/ACCUPRESS

	REVISIONS		
LTR	DESCRIPTION	DATE	APPROVED
A	CORRECTED SWITCH SETTING CHART FOR SA4 PER ECO 178.	5-4-77	
В	REDRAWN PER ECO 236.	5-16-78	N.D. 5.10.78
C	CHANGED I.C. LOC'H" PER ECO 806	12-9-90	Voed 1.

	TTCH A	SWITCH SETTINGS	SYSTEM CONSIDERATIONS
1	ОИ	FOR DRIVES THAT REQUIRE REWIND COMMAND REMOVAL PRIDR TO BOT	I. REMOVE ALL INTERFACE TERMINATORS FROM TRANSPORT(S)
1	OFF	FOR DRIVES THAT DO NOT REQUIRE REWIND COMMAND REMOVAL PRIOR TO BOT	2. INSTALL CONTROL TERMINATOR ONLY IN LAST DAISY CHAIN POSITION
2	01/	FOR DRIVES THAT STORE EDT STATUS NOTE: AS SHOULD BE OFF	3. CORRECTLY IDENTIFY CONFIGURATION AND SET SWITCHES ACCORDINGLY
۲	OFF	FOR DRIVES THAT DO NOT STORE EOT STATUS NOTE: A5 SHOULD BE ON	NOTES:
3	ON	FOR 7 TRACK DRIVES	I. FOR 7 TRACK DRIVES IN DRIVE I PRIMARY SPEED SELECTION IS A
٦	OFF	FOR 9 TRACK DRIVES	2. REF. ASSY. DWG. 122037, 122038 ③ 122010 INSTALLED WHEN TRANSF UNIT SELECT SWITCH (SEE EX
1	ON	FOR 7 TRACK 556/800 BPI DENSITY SELECTIONS OR 9 TRACK SECONDARY SPEED (SELECTION B)	122011 INSTALLED IN 415 TRAI 4 TRANSPORTS ARE DAISY CHI
4	OFF	FOR 7 TRACK 200/556 BPI DENSITY SELECTIONS OR 9 TRACK PRIMARY SPEED (SELECTION A)	122012 INSTALLED WHEN TRA HAVE UNIT SELECT SWITCH.
5	ОИ	FOR DRIVES THAT DO NOT STORE EOT STATUS NOTE: A2 SHOULD BE OFF	(4) FOR PERTEC COMPATIBLE UNIT JUMPER E TO F, G TO H, AND (5) FOR EXTERNALLY CONNECTED
J	OFF	FOR DRIVES THAT STORE EOT STATUS NOTE: AZ SHOULD BE ON	CUT ETCH BETWEEN PER EXTERNAL SWITCH TO A,B,C, © TO POWER ADAPTER FROM TAP
_	ON	FOR 9 TRACK NRZI ONLY DRIVE	CUT ETCH BETWEEN JES AT 7. FOR CONFIGURATION "L" SEE I
6	OFF	FOR 7 TRACK DRIVES, 9 TRACK 1600 BPI DRIVES, OR 9 TRACK 800/1600 DUAL DENSITY	8. FOR CONFIGURATION "N" SEE 1 9. FOR CONFIGURATION "S" SEE 1
7	ON	FOR DUAL DENSITY 9 TRACK DRIVES THAT DO NOT PRESENT NRZ STATUS ON DRIVE READ CONNECTOR	
	OFF	FOR DUAL DENSITY 9 TRACK DRIVES THAT DO PRESENT NRZ STATUS ON DRIVE READ CONNECTOR	
0	ОИ	FOR 7 TRACK DRIVES	
8			

NOTES:

- I. FOR 7 TRACK DRIVES IN DRIVE DAISY CHAINS, ONLY PRIMARY SPEED SELECTION IS AVAILABLE.
- 2. REF. ASSY. DWG. 122037, 122038, & 122039.

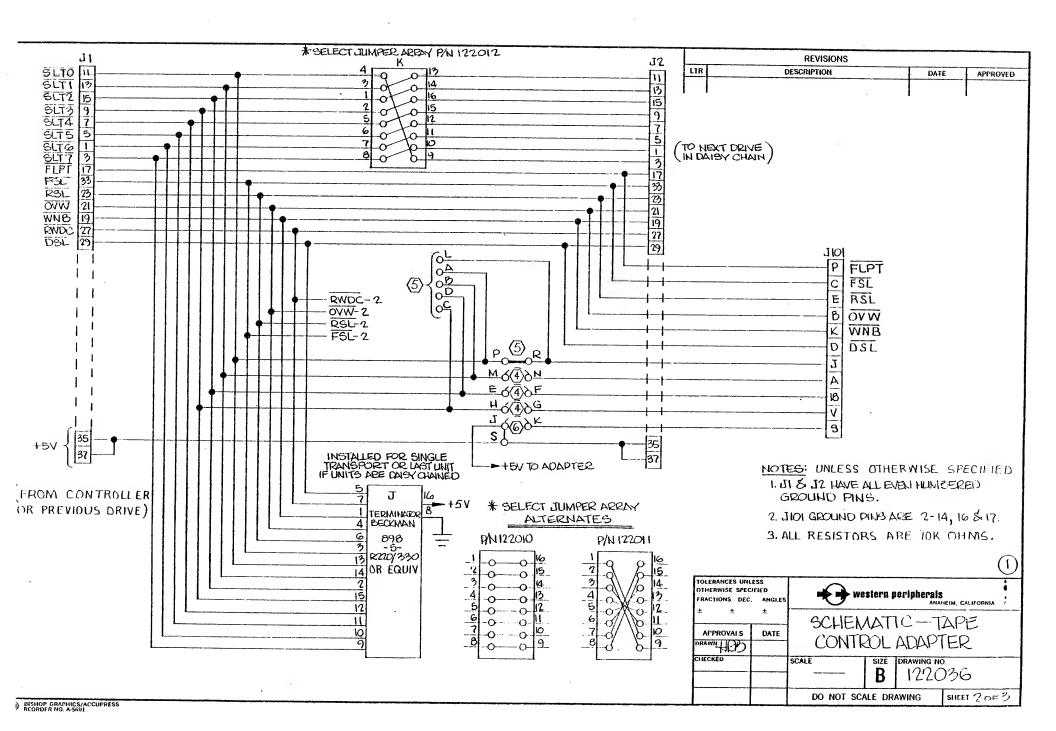
(3) 122010 INSTALLED WHEN TRANSPORT HAS 4- POSITION UNIT SELECT SWITCH (SEE EXCEPTION BELOW). 122011 INSTALLED IN 4 14 TRANSPORT IF MORE THAN 4 TRANSPORTS ARE DAISY CHAINED. 122012 INSTALLED WHEN TRANSPORT DOES NOT

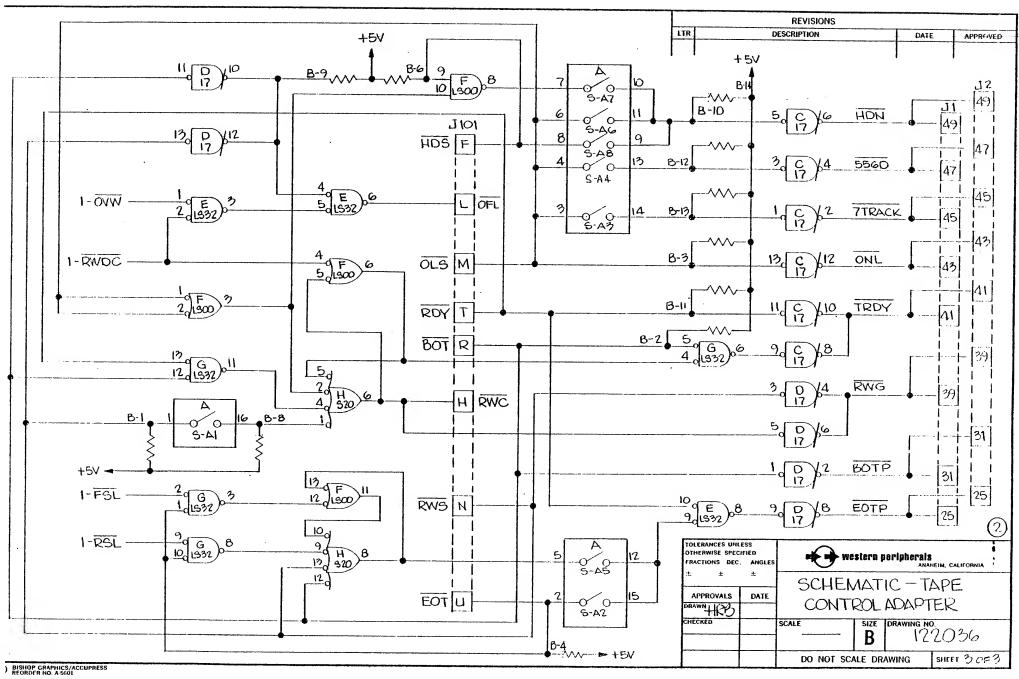
HAVE UNIT SELECT SWITCH.

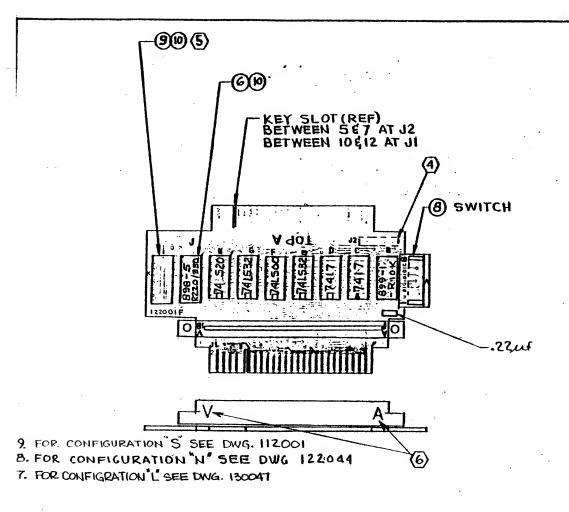
- (4) FOR PERTEC COMPATIBLE UNIT SELECT OPTION: JUMPER E TO F, G TO H, AND M TO N.
- 5 FOR EXTERNALLY CONNECTED UNIT SELECT SWITCH: CUT ETCH BETWEEN PER AND CONNECT EXTERNAL SWITCH TO A,B,C,D,&L.
- 6 TO POWER ADAPTER FROM TAPE TRANSPORT. CUT ETCH BETWEEN JES AND JUMPER J'TOK.
- 7. FOR CONFIGURATION "L" SEE DWG. 130047.
- 8. FOR CONFIGURATION "N" SEE DWG. 122044.
- 9. FOR CONFIGURATION 'S" SEE DWG. 112001.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES		₩ W	estern p	eripherals	HEIM, CALIFORNIA
.t ±	±	SCH	ΙFΜ	ATIC	
APPROVALS	DATE	TAPE CONTROL ADAPTER			
DRAWN T.M.	2.15.78	IAPL COR	HUL	, ADNT	ICH
CHECKED	5-16.78	SCALE	SIZE	DRAWING NO	
			B	1220	136
		DO NOT SCALE DRAWING		SHEET I OF 3	

FOR 9 TRACK DRIVES







	REVISIONS					
LTR	DESCRIPTION	DATE	APPROVED.			
A	EC.O. No0143	1-18-77				
В	E.C.O. NO0190	6-3-77	1.12:11			
	RECORD CHANGE: ADD CONF. *L" (REV. LTR. CHANGE NOT REQO.)	8-9-77	10,17			
	RECORD CHG! ADD CONF'N' (REV LTR GHG NOT REGD)		7 25.77			
1	RECORD CUG: ADD 5H NO.2 (1A55Y),NO CHG TO BASIC BD SEE ECO# 0254(NO REVLIR REGD)	M.T-C -11 -14-37	11.D.			
	ECD #299 (ND REV.LTR. CHANGE)	3.8.78 m	7/ D3-7-18			
С	USE "F'REV. PWB, REF. ECON. 236A	5-16-78 FAUL CHAPMAN	N. 1. 5. 16.78			
D	DELETED NOTES 3 & 6 PERECO 414	17	N. F. 2. 6.79			
E	TELL COO NO. 480	1266-79	2429 279			
F	ADDED NOTE @ PER ECO#504		4476-20-79			
	T C Bull C (D D) C D					

G IC"H" S/B 74520 ECO 806

MAPK CHAPACTERS SHOWN (A EV) ON SIDE OF CONNECTOR USING CONTRASTING INK.

5) FOR OPTIONAL JUMPERING AND/OR JUMPER ARRAYS, REF JO.A. & SCHEMATIC

4) RUBBER STAMP ASSY NO WITH LATEST REV LTR AND DASH NO. (IF REQD) APPROX WHERE SHOWN (FAR SIDE)

3.

Z.FOR MATERIAL SEE P/L NO. 122037

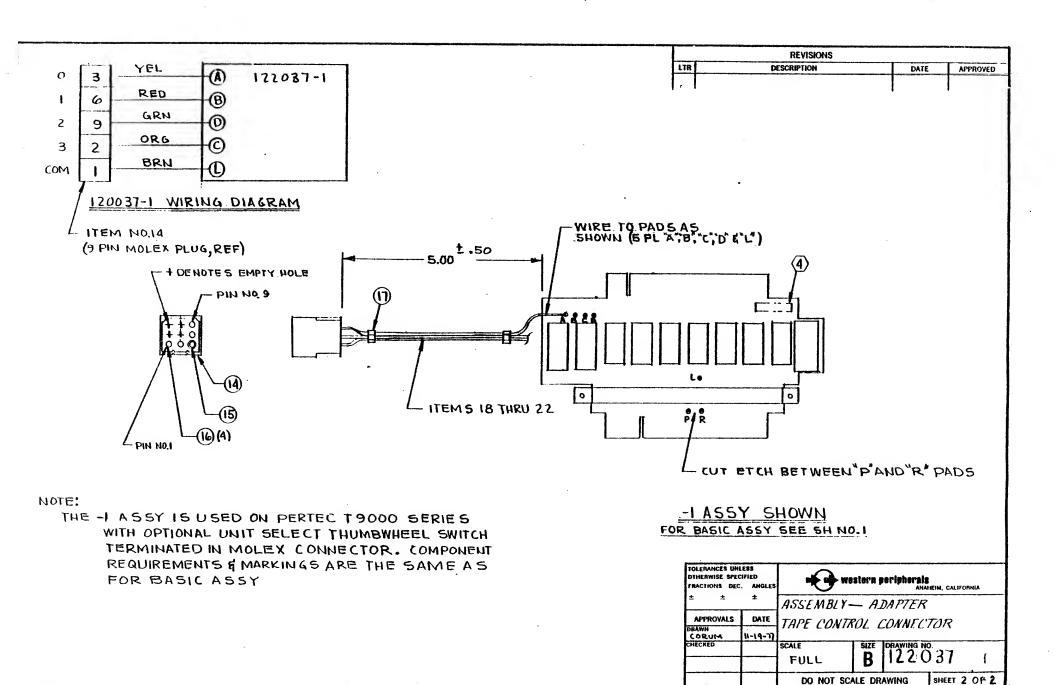
I. REF SCHEMATIC 122036

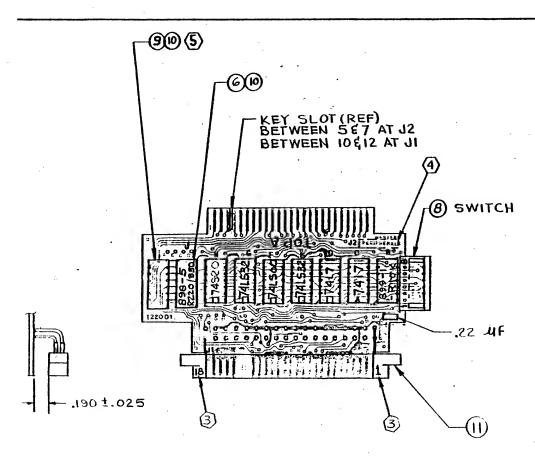
HOTE: UNLESS OTHERWISE SPECIFIED

BASIC ASSY SHOWN

TOLERANCES UM OTHERWISE SPEI FRACTIONS DEC	CHIED	# (-) w	stern g	oriphorals	HEM, CALIFORNIA
± ±	±	ASSEMBLY ADAPTER			
APPROVALS	DATE	TAPE CONTROL CONNECTOR			
CORUM!	11-8-76				
CHECKED.	12-16-76	SCALE		DRAWING NO	
		FULL B 122037			
		DO NOT SCALE DRAWING #IEET			MIEET 10F2

BISHOP GRAPHICS/ACCUPRESS





- FOR CONFIGURATION 'S' SEE DWG. 112001
- FOR CONFIGURATION "N" SEE DWG. 122044

i) FOR OPTIONAL JUMPERING AND/OR JUMPER ARRAYS, REF JO.A. & SCHEMATIC

I) RUBBER STAMP ASSY NO, WITH LATEST REV LTR LOCATED APPROX WHERE SHOWN (FAR SIDE)

I) RUBBER STAMP CHARACTER SHOWN USING WHITE INK

I. FOR MATERIAL SEE P/L NO. 122038

I. REF SCHEMATIC 122036

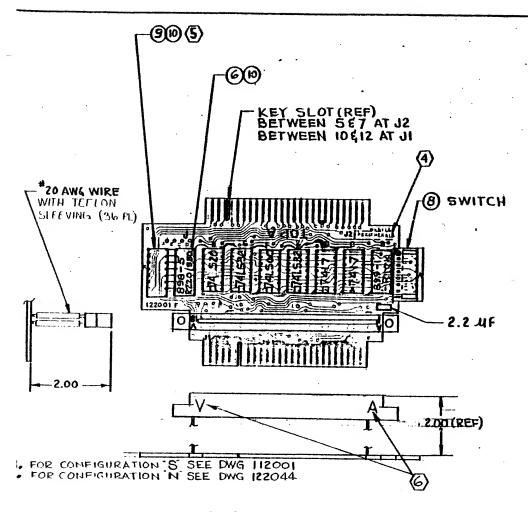
OTE: UNLESS OTHERWISE SPECIFIED

			
	REVISIONS		
LTR	DESCRIPTION	DATE	APPROVED
A	E.C.O. NO0143	1- (8-77	
B	E.C.O. No 0190	6-3-77	N.D:11-77
С	E.C.O. NO0197	8-8-77	N.D. 8-9-77
	<u>ЕС</u> Д. NO 299 (NO REV. LTR. CHG.)	3-8-78m	ND grant
	ADDED NOTE 7. PER E.C.O. 257 AND DELETED REQUIREMENT FOR SLEEVING WIRE AT CONNECTOR		11. Syc. 16
D	USE F"REV. PWB, REF. ECO No. 236A	5-16-18 FAULCHAIN	17 (16.18
E	REVISED NOTE 3 FER ECO#355	D.d. 42/7	1
F	DELETED NOTE 6 PER E.C.O. 414	01.3/2/2	1
G	CHANGED I.C. AT LOC H PER ECO 80%	12 9 10	10 1/2/
H	INC ECO NO. 852	7/29/4/	12

un 27 1981

TOLERANCES UN OTHERWISE SPEC FRACTIONS DEC	CIFIEO	+3	western j	eripkerals ,,,,,	ieim, California
± ±	±	ASSEM			
APPROVALS	DATE	TAPE CONTROL CONNECTOR			
CORUM	N- 8-76	_90° 1	NOU	MITH	G
W.D.	12-16-76	1).	
		DO NOT SCALE DRAWING		SHEET OF	

BISHOP GRAPHICS/ACCUPRESS



`	MARK	CIMPACTERS	SHOWN (NO (VBA)	SIDE OF	CONNECTOR
1	USING	CONTRASTIN	VG INK	,		

) FOR OPTIONAL JUMPERING AND/OR JUMPER ARRAYS, REF JO.A. & SCHEMATIC

PRUBBER STAMP ASSY NO. WITH LATEST REV LTR LOCATED APPROX WHERE SHOWN (FAR SIDE)

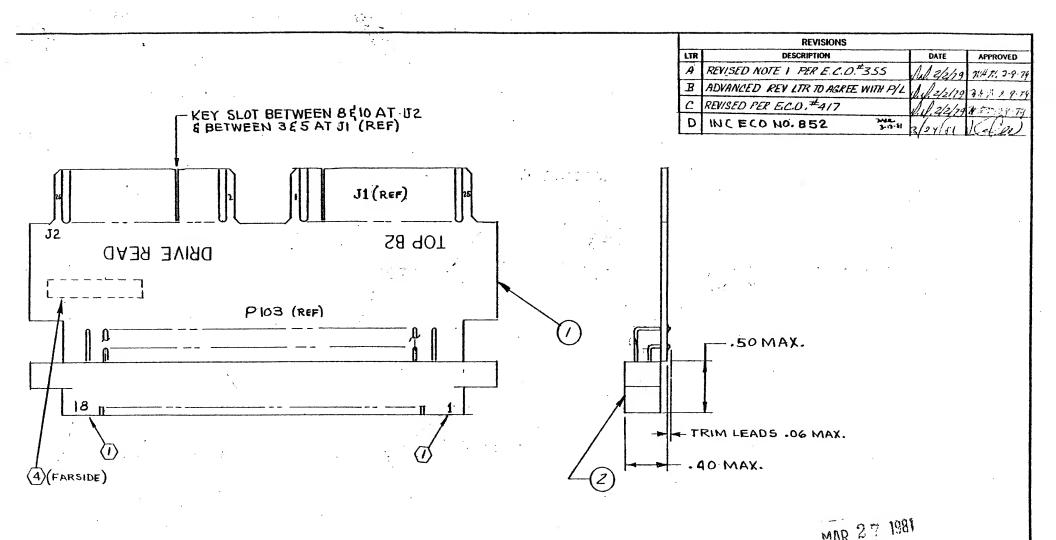
FOR MATERIAL SEE PLNO. 122039

.REF SCHEMATIC 122036

OTE: UNLESS OTHERWISE SPECIFIED

T			
	REVISIONS		
LIR	DESCRIPTION .	DATE	APPROVED
A	EC.O. NO0143	1-18-77	
	€C.O. NO0190	6-3-77	11.02 11-77
C	E.C.O. NO 0197	8-8-77	11.0-8-0.11
	E.C.O. NO-299 (NO REV. LTR. CHG.)	3-8-78 ₁₇	N. 5.3.18
	ADDED NOTE 7. PER E.C.O.257		74.173-21.78
D	USE F REV. PWB, REF. ECO No. 236A	5-16-78 PALCHAPIAN	1.Dig.16.78
E	DELETED NOTES 3 & 6 PER ECOTAM	1/2/1/29	742 6 74
F	ADDED NOTE @ PER ECO \$ 504	6-20-79 1/2	GNIST 6-20 79
6		CD 806	

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± +		*€• ₩1	sters ;	sripherals ANA	HEIM, CALI	FORNIA
<u> </u>	.	ASSEMB	LYF	ADA	PTE	R
APPROVALS	DATE	TAPE CONTROL CONNECTOR				
CORU M	11-8-76	2 INCH	ST	DIA	OF	F
CHECKED.	12-18-18	SCALE	SIZE	DRAWING NO) .	
		FULL B 122039				
		DO NOT SCALE DRAWING			SHEET	OFI



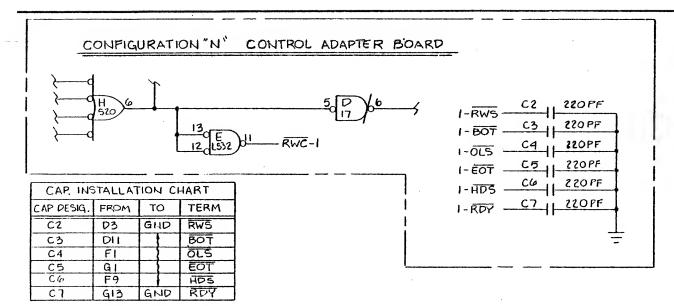
(A) RUBBER STAMP ASSY. NO. WITH LATEST KEV LTR APPROX. WHERE SHOWN.

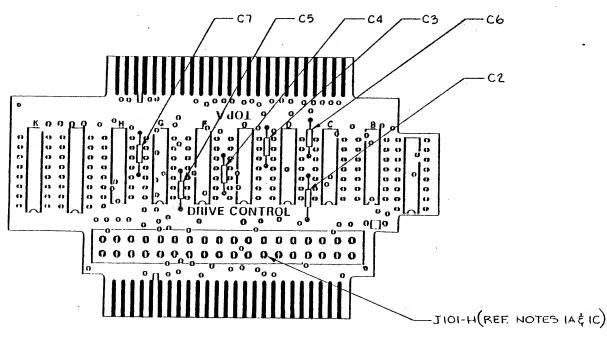
3. SEE P/L 122043.

2'. REF. SCHEMATIC DWG NO. 122022 .

(I) RUBBER STAMP CHARACTERS SHOWN WITH WHITE INK.

OTE : UNLESS OTHERWISE SPECIFIED.





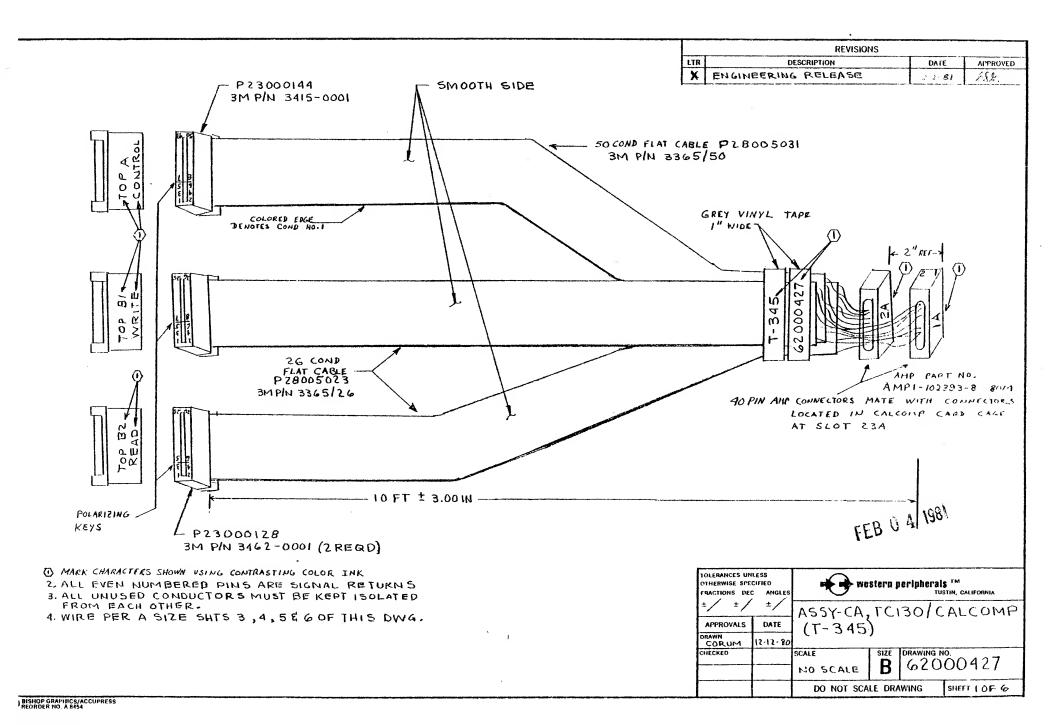
	REVISIONS							
LTR	DESCRIPTION	APPROVED						
Α	REDRAWN PER ECO. 237	10.27-77						
B	REVISE PER ECO. 257	3.21.78						
C	REVISE PER E.C.O. 236-A	5-16-78	÷,					
D	DELETE REWORK FOR O' REV FWB	10-15-80	Cha					
E	CHANGED I.C. LOC'H PER ECO ROG	12-3-730	(/.)					

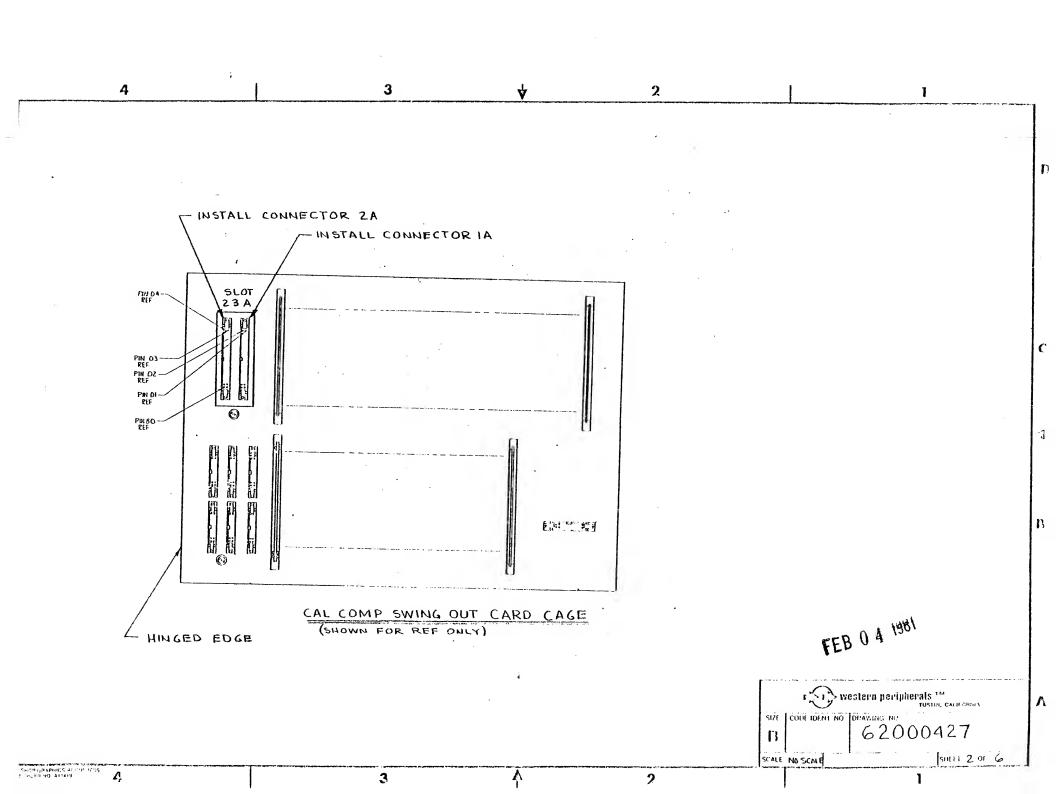
<u>REWORK INSTRUCTIONS</u>: (REF ASSY'S 122037, 122038 § 122039)

- 1.) MODIFY CIRCUIT
 - A. CUT ETCH (SOLDER SIDE) AT JIOI-H
 - B. JUMPER F5 TO E12 & 13 (SOLDER SIDE)
 - C. JUMPER EII TO JIOI-H(SOLDER SIDE)
- 2) COMPONENT ADDITION & MARKING
 - A. ADD (6) 220PF CAPACITORS (C2 THRU C7) AT LOCATIONS SHOWN
 - B. IDENTIFY AS CONF N" AT ASSY NUMBER USING BLACK INK
- 3) THIS MOD PROVIDES ISOLATION & FILTERING FOR ADAPTER ELECTRONICS
- 4) MATERIAL REQUIREMENTS:
 - A. (1 REQ.) BOARD ASSY, AS NOTED IN PROCEDURES ABOVE
 - B.(6 REQ.) 220PF CAPACITORS (WP15000195)
- 5) VERIFY PROPER CAPACITOR INSTALLATION BY PERFORMING CONTINUITY CHECK PER THE CAPACITOR INSTALLATION CHART
- 6) REF. SCHEMATIC 122036
- 7) APPLICABLE TO "F" (OR LATER) REV PWB ONLY.
 TO RETROFIT OLDER ASSEMBLIES WITH "O"
 REV PWB, REFER TO "C" REV HISTORY COFY
 OF THIS DRAWING

DEC 2 4 1980

10LERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC ANGLES		western peripherals TM Tustin, California			S TM STIN, CALIFORNIA
± ± ±		MODIFIC	ATIO	NC	DWG-
APPROVALS	DATE	TAPE CONTROL ADAPTER			
DRAWNILL AND ELECTION	10-1680	1			M"
CHECKED 25, 2444215	10-16-50	SCALE SIZE DRAWING NO B 1220			
		DO NOT SCALE DRAWING		SHEET OF	





WIRE LIST

By CORUM	📉 Date	12-1	2-80
Checked	Ву	4	, , , , , , , , , , , , , , , , , , ,
Date			

Sheet _	_3	_ of_	5	
Work Or	der			
Dwawia	621	200	127	

Rev./___/

						 	
ITEM	FROM		то	GAGE C	OLOR	TYPE ROUT	LOGIC NAME
	CONTROL "A" CONN	-9.	2A - 25	50C FLAT			
•	! .	10	-26	1			
•		ÎI.	- 39				
		12	" ZA -40				
		13	1A - 39				1
_		14	-40 -				
		15	-37				
		16	-38			•	
		17	. 1 -31				
		18	1A - 32				
		19	2A - 31				9
		20	-32				
		21	-27				
<u></u>		22	- 28			0	
		23	35				
843		24	2A - 36				
	•	25	1A - 29				
	<u> </u>	26	1 A - 30				
		27	2A-29				
		28	4 -30	147			*
	I CONTROL	29	1 -23	7			
	CONTROL "A" CONN	30	2A - 24	50/C FLAT			
-							

W	T	R	F	1	T	S	7
л	4	"	-		. 4	-	•

<u></u>			•	77.174
By coeum Da	te 12-12	-80		
Checked By	4	;		
Date				

Sheet _	4	_ of	6	
Work Ord	der			
. ,	10	000	40	7

Date			-			Drawing 62000427			
		·					Rev./		
ITEM	FROM		то	GAGE	COLOR	TYPE ROUT	LOGIC NAME		
	CONTROL "A" COMM	3-1	1A -33	50/C FLAT		-			
•	1 3	32	1A -34	. 4					
		33	2A - 33						
		34	2A - 34				•		
		39	1A-25				g		
	4	40	- 26	-					
		41-4	-23						
	4	42.	-24				•		
<u>,</u>		43	1 -19	Y		•			
	CONTROL "A" CONN	44	IA -20	50/C FLAT					
4	WRITE "BI" CONN	y	2A - 21	26/C FLAT					
ŧ	4	.2	1 - 22	ì					
		3	-19						
,		4	- 20	71					
		5	-37						
FEF		6	2A - 38						
FEB O	-	7.	1A-15						
190	7	8	1A-16						
	1 i) 1	2A-15						
		12	4-16						
•	1	13	-3	Y		·			
	BI CONN	14	2A -4	26/C FLAT					
							,		

WIRE LIST

By CORUM Da	te 12-12-80	•	MINE	. (13)
Checked By	,			
Date	1			.··.

Sheet 5 of 6
Work Order

Drawing <u>62000427</u>

Rev./___/

ITEM	FRO	М		то		GA(GE	COLOR	TYPE	ROUT	LOGI	C NAME
	WRIT BI"C	E 0 M M	1-5)A -· 11		26. FL	/C					
•	4		16	-12	2 .					•		
			17	y -3	}						·	
			18	IA -4							•	•
			19	2A-1						•		
	٠.		20	1 -17	? <u> </u>						•	
			21-	† -7								
			22.	ZA -8						•	•	
	. 4		23	. IA - 7		1						*
	WRIT "BI'C	NNO	24	IA-8		26, FL	C AT					•
	REA BZ	DUN	١	24-17		26 FL	1C 4T				•	
,			2	2A-18)	Á		•				
			₿.	1A-13	3							
1			4	1A -14	4				·			
			5	2A-1	3							7
FER			6	2A-1	4							•
1	P .		7.	1A - 9). 							
	198		8	1A-10)							
			9	2A-9								
			lP	2A-10)							
	4		1-1	IA - 5		1	,					gellingsgegegels film med dir i der
	RE BZ*C	DUN	12	1A-6)	26 FL	/C AT				ļ	

W	T	R	Ε	1	T	Z.	Ī
п		1	_	_	_		1

By CORU	M	Date	12-12	-80	
Checked	By_		4		
Date					

Sheet ________ of _____ Work Order____

Drawing 62000427

Rev./

			-					
1	ITEM	FROM	•	то	GAGE	COLOR	TYPE ROUT	LOGIC NAME
-		READ "E2" CONN	1-3	2A - 5	26/C FLAT			
	•	Å	14	2A - 6 .	1			
1	•		19	14-1				·
			20	2				·
			21	¥ 35				
	_		22	1A 36 -				
		Ÿ	23-		Ÿ	ic-		
		READ B2 CONN	24 .	2A - 2	26/C FLAT		·	•
	*							
					·	·		
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1		•		·				
		33						·
		80						
		FEB 0 1 1991						
	i							

	REVIS	SIONS	
LTR	DESCRIPTION	DATE	APPROVED
А	PROD. RLSE	8.29.80	1
3	REVISE "PURPOSE" PER ECO. 330	1-21-81	12 Del

PURPOSES

PROVIDES COMPATABILITY WITH C.D. C. OR OTHER TAPE DRIVES WITH 2.75 INCH SPACING FROM LOAD POINT SENSOR TO READ/WRITE HEAD. (DOES NOT APPLY TO C.D.C 92149)

GENERAL DESCRIPTION :

PROM (PART NO. 120021-A) WHICH USUALLY CONTROLS BOT GAP SPACING MUST BE REPLACED WITH PROM NO. 120028.
THE DIFFERENCE IN CONTENT OF ADDRESSES 48 AND 68 IS SHOWN BELOW;

STANDARD (PROM 120021-A)	CONF. "C" (PROM 120028)
ADD 48 10001111 ADD 68 11110011	01110000

IMPLEMENTATION:

THE PROM LOCATIONS REQUIRING THE 120028 IN LIEU OF THE 120021-A ARE AS FOLLOWS AND APPLY TO NRZ | ONLY UNITS AS WELL;

TC120 (REF. ASSY. 60000 411 OR 60000429) LOCATION 2L TC130, BD#1 (REF. ASSY. 130017) LOCATION 12C TC140 (REF. ASSY. 60000023 OR 60000130) LOCATION 14H TC150, BD#1 (REF. ASSY. 60000080) LOCATION 12C

NOTES

PROM NUMBERS 120021-A AND 120028 ARE LISTED AS P17009507 AND P17009606 RESPECTIVELY UNDER NEW COMPUTER PART NUMBERING SYSTEM.

JAN 21 1981

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES	\sim		TIN, CALIFORNIA
APPROVALS DATE DRAWN DENHIS 8.29.80	MODIFICATION DRAWING - TC120/TC130/TC140/TC150 CONFIGURATION "C"		
CHECKED/ 6-29-96	SCALE	SIZE DRAWING NO) 00402
	DO NOT SCALE DRAWING		SHEET OF

	REVISIONS					
LTR	DESCRIPTION	DATE	APPROVED			
Α	INITIAL RELEASE	9-15-80	The state			

PURPOSE: TO PROVIDE START-UP AT 1600 B.P.I.

In order to initialize in the 1600 B.P.I. mode of operation, PROM's U45 and U56 in the upper-left corner of the Control Board must be of the proper type. A jumper must be installed.

- 1. The Prom Part Numbers can be 754013810 and 754013811 with revision levels of "G" or higher, or they may have part numbers beginning with 154 with any revision level.
- 2. A jumper must be installed between Pads "BP" and "BR" which are located below the PROMS and directly above U55.
- 3. After modification, install an adhesive label inside the front panel of the drive near the upper relel motor and Cipher label. The adhesive label should read: "Modified per Western Peripherals Configuration "A", Dwg. 79000410.

SEP 15 1980

TAPE DRIVE MODIFICATION

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES ± ± ± APPROVALS DATE		western peripherals TM TUSTIN, CALIFORNIA MODIFICATION DRAWING -			
					DRAWN H. DEUTSCH
D Stally	9-15-80	SCALE	A	DRAWING NO	00410
		DO NOT SCALE DRAWING S		SHEET OF	

	REVISI	IONS	
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12-30-30	CAL

PURPOSE: TO ELIMINATE WRITE AND/OR READ ERRORS WHEN TAPE IS AT B.O.T. AND DRIVE IS OFF-LINE.

When Cipher 900X Tape Drives are received from vendor, they have the jumpers set in such a way that if the drive is off-line and at B.O.T., the computer receives a tape unit ready status and Write/Read errors are detected if the CPU attempts any Write/Read operation.

- To prevent the above from happening, remove jumper BD to BC and install jumper BA to BB located in the vicinity of IC U52 on the Control/Servo PCB of the Cipher 900X type drive.
- 2. After modification, install an adhesive label inside the front panel of the drive near the upper reel motor and Cipher label. The adhesive label should read: Modified per Western Peripherals Configuration "B", Dwg. 79000642.
- 3. Reference Cipher Control/Servo Schematic 355012-300.

TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DEC. ANGLES:		western peripherals TM TUSTIN, CALIFORNIA			
	DATE	MODIFICATION	I DRAWI	NG -	
DRAWN 12-30-80		CIPHER 900X, CONFIGURATION "B"			
CHECKED N. Caratal			SIZE	DRAWING NO).
			A	79000	642
		DO NOT SCA	ALE DR.	AWING	SHEET of

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INSTALLATION CHECKLIST - CIPHER 100X

- 1. Open carton.
- 2. Turn over and lift off carton.
- 3. Remove corner pads.
- 4. Open inner carton.
- 5. Turn over and lift off carton from drive.
- 6. Locate manual and mounting hardware.
- 7. Inspect the drive Contact the carrier if any concealed shipping damage is discovered.
- 8. On some cabinets, a mounting frame is required to mount the drive because the door swings against the edge of the cabinet.

 Mount the extender frame at the appropriate location in the cabinet. Be sure the hinge holes are on the correct side.
- 9. Refer to the tape drive manual.
- 10. Mount the tape drive hinges at an appropriate location on the cabinet. Place the longer hinge at the top. Place nylon washers on hinge pins.
- 11. Place drive on its back and remove screw from shipping frame.
- 12. Mount drive on hinges and secure with hinge safety block.

 Secure drive latch.

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